

DOCUMENT RESUME

ED 250 576

CE 040 176

TITLE Taxonomy of Behavioral Objectives for Vocational Programs. Vol. 1.

INSTITUTION Gloucester County Vocational-Technical School, Sewell, NJ.

SPONS AGENCY New Jersey State Dept. of Education, Trenton. Div. of Vocational Education and Career Preparation.

PUB DATE 84

NOTE 739p.

PUB TYPE Reference Materials -
Vocabularies/Classifications/Dictionaries (134)

EDRS PRICE MF04/PC30 Plus Postage.

DESCRIPTORS Auto Body Repairers; *Auto Mechanics; *Behavioral Objectives; *Building Trades; Classification; *Climate Control; Commercial Art; Competency Based Education; Cosmetology; *Data Processing; Disabilities; Disadvantaged; Emotional Development; Employment Potential; Evaluation Criteria; Food Service; Individualized Education Programs; Job Skills; Mathematics; Postsecondary Education; Programing; Secondary Education; Social Development; Student Evaluation; *Vocational Education; Vocational Schools

IDENTIFIERS Special Needs Students

ABSTRACT

Developed from courses of study in two-year vocational technical programs at the Gloucester County Vocational Technical School, these taxonomies present behavioral objectives for 12 subjects. They are intended for use by vocational teachers in the preparation of the vocational component of the individualized educational plan (IEP) for special needs students. These 12 subjects are included: social/emotional development, preparation for the world of work, mathematics, auto body, auto mechanics, building trades, climate control, commercial art, commercial foods, cosmetology, data processing/computer programming, and diesel/truck repair. Subjects are divided into areas with stated goal(s) for which behavioral objectives are listed. The format for a listing of the behavioral objectives for each stated goal within an area is as follows: statement of the behavioral objective, criterion, evaluation method and spaces for comments, the date the objective was introduced, and the date the objective was achieved. (YLB)

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Sewell, New Jersey

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TAXONOMY OF BEHAVIORAL OBJECTIVES
FOR VOCATIONAL PROGRAMS

Vol. I

Q5040176

FORWARD

These taxonomies, developed from nineteen (19) Courses of Study of two year vocational technical programs at the Gloucester County Vocational Technical School, are an outcome of a project conducted pursuant to a contract from the New Jersey Department of Education, Division of Vocational Education and Career Preparation, funded under Public Law 94-482. They were developed and used by vocational teachers in the preparation of the vocational component of the individualized educational plan (IEP) for Special Needs students.

The contents are listed as they appear in this publication:

Volume I

Social/Emotional Development
Preparation for the World of Work
Mathematics
Auto Body
Auto Mechanics
Building Trades
Climate Control
Commercial Art
Commercial Foods
Cosmetology
Data Processing/Computer Programming
Diesel/Truck Repair

Volume II

Drafting & Design
Electrical Trades
Graphic Communications
Health Occupations
Landscape/Horticulture
Machine Trades
Masonry
Plumbing & Piping
Sheet Metal
Welding

SUBJECT: Social/Emotional Development

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Intro. Date
 Achieved

1. Objective - Demonstrate a willingness to accept external control of behavior by complying with simple requests.

Criterion - As stated 90% - 100% of time.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Identify the difference between one's and other's belongings.

Criterion - As stated 80% - 90% of time.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Respect the property of others by not disturbing it.

Criterion - As stated 80% - 90% of time.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Interact in an acceptable manner with other students.

Criterion -

Evaluation Method - Teacher Observation

- a. Take turn in activities & conversation.
- b. No inappropriate physical contact.
- c. Does not interrupt.

As stated 90% of time.

Comments -

SUBJECT: Social/Emotional Development

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Page 2

Date
Intro. Date
Achieved

5. Objective - Put tools and equipment in their proper place.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

6. Objective - Arrive to school punctually.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Attend school on all days with the exception of excused absences.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

8. Objective - Proceed with daily routine upon arrival without delay.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

9. Come prepared for activities of the day (appropriate dress, tools, books, paper, pencil, etc.)

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 3

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Achieved

10. Imitate a demonstrated simple one step task - e.g. identify a correct tool.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

11. Follow simple one step verbal directions without demonstration.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

12. Objective - Imitate when shown a simple two step task.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

13. Objective - Follow two step verbal directions

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

14. Objective - Imitate a simple three step task when demonstrated.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 4

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Intro. Date
Achieved

15. Objective - Follow a simple three step verbal direction.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

16. Objective - Attend to and/or complete an easy/familiar task with one-to-one supervision for a given time period.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

17. Objective - Attend to and/or complete an easy/familiar task with partial supervision for a given time period.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

18. Objective - Attend to and/or complete an easy/familiar task without supervision for a given time period.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

19. Objective - Attend to and/or complete a difficult/new task with one-to-one supervision for a given time period.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 5

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Intro. Date
Achieved

20. Objective - Attend to and/or complete a difficult/new task with partial supervision for a given time period.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

21. Objective - Attend to and/or complete a difficult/new task without supervision for a given time period.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

22. Observation - Work appropriately in a small group (2-5 students) with one-to-one supervision for a given time period.

Criterion -

Evaluation Method - Teacher Observation

- a. no inappropriate physical contact
- b. follows direction
- c. Speaks when appropriate

Comments -

23. Observation - Work appropriately in a small group (2-5 students) with partial supervision for a given time period.

Criterion -

Evaluation Method - Teacher Observation

- a. no inappropriate physical contact
- b. follows direction
- c. Speaks when appropriate

Comments -

SUBJECT: Social/Emotional Development

Page 6

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Intro. Date
Achieved

24. Observation - Work appropriate in a small group (2-5 students) without supervision for a given time period.

Criterion -

- a. no inappropriate physical contact
- b. follows direction
- c. Speaks when appropriate

Evaluation Method - Teacher Observation

Comments -

25. Objective - Attend to large group instruction (6-16 students) for a given time period.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

26. Objective - Demonstrate awareness of shop/school rules and regulations when reminded.

- Criterion -
- a. Ceases incorrect activity
 - b. Verbalizes rule or awareness of same.
- As stated 80-90% of time.

Evaluation Method - Teacher Observation

Comments -

27. Objective - Wears clothing appropriate for training program/occupation.

Criterion - As stated 90-100% of time.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 7

AREA: Learning Characteristics

COM: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Info. Achieved

28. Objective - Adhere to shop/school rules and regulations without prompting.

Criterion - As stated 80-90% of time.

Evaluation Method - Teacher Observation

Comments -

29. Objective - Demonstrates awareness of shop safety rules and procedures when reminded.

Criterion - As stated 100% of time.

Evaluation Method - Teacher Observation

Comments -

30. Objective - Wears appropriate safety equipment and apparel.

Criterion - As stated 100% of time.

Evaluation Method - Teacher Observation

Comments -

31. Objective - Uses appropriate safety equipment and procedures.

Criterion - As stated 100% of time.

Evaluation Method - Teacher Observation

Comments -

32. Objective - Identify unsafe working conditions.

Criterion - As stated.

Evaluation Method - Verbal or written statement

Comments -

33. Objective - Correct unsafe working conditions when prompted.

Criterion - As stated 90-100% of time.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 8

AREA: Learning Characteristics

GOAL: To be able to demonstrate the behaviors that are necessary for one's success in academic/vocational skills and in the work environment.

Date
Intro. Date
Achieved

34. Objective - Correct unsafe working conditions without prompting.

Criterion - As stated 90-100% of time.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 9

AREA: Assertive Behavior

DATE: To develop and/or improve the ability to act in one's own best interests, to stand up for oneself without undue anxiety, to express honest feelings comfortably or to exercise personal rights without denying the rights of others.

Intro. Date
Achieved

1. Objective - Express oneself with appropriate non-verbal cues. (ie. - maintaining eye contact, erect body posture toward the person one is talking to, relaxed use of gestures, appropriate facial expression, and the appropriate tone, inflection and volume of one's voice).

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

2. Objective - Appropriately state positive or negative feelings when such a situation arises (ie. - A man is unjustly accused or stealing a tool; he responds in a calm manner with an explanation that he was absent on the day the tool was taken rather than exploding that he didn't do it).

Criterion - Teacher Observation

Evaluation Method - a. Stay calm
b. Express self clearly
c. Take time in making the explanation.

Comments -

3. Objective - Appropriately respond to criticisms, or anger; (that is, without hurtful behavior toward others, without intimidation, and without cursing).

Criterion - Teacher Observation

Evaluation Method - a. Stay calm
b. Listen attentively
c. Doesn't talk back
d. Follow through on suggestions

Comments -

4. Stand up for oneself by not conforming to pressure of the peer group (e.g. smoking, drinking, marijuana, sex).

Criterion - Teacher Observation

Evaluation Method - a. Express own opinion
b. Leave group that one doesn't agree with.

Comments -

SUBJECT: Social/Emotional Development

AREA: Assertive Behavior

GOAL: To develop and/or improve the ability to act in one's own best interests, to stand up for oneself without undue anxiety, to express honest feelings comfortably or to exercise personal rights without denying the rights of others.

Page 10

Date
Intro.

Date
Achieved

5. Objective - Initiate conversation with a peer.

Criterion - Teacher Observation

Evaluation Method - a. Express self clearly
b. Speak to peer in proper tone.

Comments -

6. Objective - Initiate conversation with an adult.

Criterion - Teacher Observation

Evaluation Method - a. Express self clearly
b. Speak in calm tone
c. Give eye contact

Comments -

7. Objective - Ask the teacher for clarification if one does not understand a direction, concept or a procedure.

Criterion - Teacher Observation

Evaluation Method - a. Raise hand
b. Wait to be recognized
c. State area of difficulty

Comments -

8. Objective - Volunteer an opinion that supports a classmate's.

Criterion - Teacher Observation

Evaluation Method - a. Verbalize supporting ideas or opinions

Comments -

9. Objective - Volunteer an opinion that is in disagreement with a peer or the teacher in an appropriate manner.

Criterion - Teacher Observation

Evaluation Method - a. Verbalize opposing ideas or opinions.
b. Express self calmly and rationally.

Comments -

SUBJECT: Social/Emotional Development

Page 11

AREA: Assertive Behavior

GOAL: To develop and/or improve the ability to act in one's own best interests, to stand up for oneself without undue anxiety, to express honest feelings comfortably or to exercise personal rights without denying the rights of others.

Date
Intro. Date
 Achieved

10. Objective - Compliment another person when appropriate.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

11. Objective - List several good qualities about oneself.

Criterion - As stated

Evaluation Method - Teacher Observation

Oral or written evaluation

Comments -

12. Objective - List some personal characteristics that should be changed and plans to change them.

Criterion - As stated

Evaluation Method - Oral or written evaluation

Comments -

13. Objective - Display a sense of humor by laughing at jokes, telling jokes, smiling and/or laughing at oneself.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 12

AREA: Impulse Control

GOAL: To increase one's ability to exercise self-control, thus increasing the ability to act appropriately in a social situation.

Date
Intro. Date
 Achieved

1. Objective - Sit quietly during lecture or a similar type presentation.

Criterion - a. Refrain from talking
 b. Keep hands and feet still
 c. Look at teacher or activity

Evaluation Method - Teacher Observation

Comments -

2. Objective - Take a turn when involved in group hands-on activities.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

3. Objective - Participate actively in hands-on activity or assignment until it is finished.

Criterion - a. Stays with job
 b. No verbal outbursts
 c. Obeys safety procedures

Evaluation Method - Teacher Observation

Comments -

4. Objective - Make a reasonable attempt to sit in a seat without moving excessively.

Criterion - As stated, 75% of the time.

Evaluation Method - Teacher Observation

Comments -

5. Objective - Use appropriate tone of voice, language, and procedure when summoning or responding to teacher.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

OBJECT: Social/Emotional Development

Page 13

Goal: Impulse Control

Objective: To increase one's ability to exercise self-control, thus increasing the ability to act appropriately in a social situation.

Date
Achieved

6. Objective - Change activities without emotional outburst.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

7. Objective - Change routine without emotional outburst.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

8. Objective - List appropriate ways to respond when being reprimanded, criticized, or teased (that is, given a hypothetical situation).

Criterion - As stated

Evaluation Method - Teacher Observation
Oral or written evaluation

Comments -

9. Objective - Display acceptable behavior when reprimanded, criticized, or teased.

Criterion - a. Stay Calm
b. Listen attentively
c. Doesn't talk back
d. Follows through on suggestions

Evaluation Method - Teacher Observation

Comments -

10. Objective - List appropriate classroom and on the job behaviors when given a particular situation (ie. If employer criticizes you about a job. If a co-worker steals your screwdriver).

Criterion - As stated

Evaluation Method - Oral or written evaluation

Comments -

SUBJECT: Social/Emotional Development

Page 14

AREA: Impulse Control

GOAL: To increase one's ability to exercise self-control, thus increasing the ability to act appropriately in a social situation.

Date
Intro. Date
 Achieved

11. Objective - Act appropriately in class and hands-on activities.

Criterion - a. Uses appropriate safety
 procedures
 b. No verbal or physical
 outbursts

Evaluation Method - Teacher Observation

Comments -

12. Objective - Recognize and describe own lack of self control.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

13. Objective - Plan an alternative strategy for dealing with own lack of self control in a work situation.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

14. Objective - Take a "time-out" period when directed by the teacher.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

15. Objective - Spontaneously take a time-out period when afraid of losing control.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Social/Emotional Development

Page 15

AREA: Impulse Control

GOAL: To increase one's ability to exercise self-control, thus increasing the ability to act appropriately in a social situation.

Date
Achieved

16. Objective - Deal appropriately with failure problems and/or disappointments.

Criterion - a. Can verbalize problems
b. Don't act out inappropriate
feeling such as cursing,
crying, hitting, throwing
things.

Evaluation Method - Teacher Observation

Comments -

Preparation for the World of Work

To know how to locate a job/apply for it and begin to develop good work habits and attitudes.

Date
Achieved

-
- | | |
|--|---|
| <p>_____ 1. <u>Objective</u> - List six (6) positive work attitudes.</p> <p><u>Criterion</u> - As stated, 80% proficiency.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |
| <p>_____ 2. <u>Objective</u> - Describe employer-employee responsibilities.</p> <p><u>Criterion</u> - As stated, 80% proficiency.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |
| <p>_____ 3. <u>Objective</u> - Locate five (5) _____ openings in the newspaper.</p> <p><u>Criterion</u> - As stated, 75% proficiency.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |
| <p>_____ 4. <u>Objective</u> - Fill out a job application.</p> <p><u>Criterion</u> - As stated, 75% proficiency.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |
| <p>_____ 5. <u>Objective</u> - Write a resume.</p> <p><u>Criterion</u> - As stated, 75% proficiency.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |

SUBJECT:

AREA:

Preparation for the World of Work

GOAL:

To know how to locate a job/apply for it and begin to develop good work habits and attitudes.

Etc.
Date

Achieved

6. Objective - Take a job interview (role playing).Criterion - As stated, 75% proficiency.Evaluation Method - Teacher ObservationComments -7. Objective - List various types of insurance.Criterion - As stated, 75% proficiency.Evaluation Method - Teacher ObservationComments -8. Objective - Describe the role of Social Security.Criterion - As stated, 75% proficiency.Evaluation Method - Teacher ObservationComments -9. Objective - Fill out an Income Tax 1040 EZA form.Criterion - As stated, 80% proficiency.Evaluation Method - Teacher ObservationComments -10. Objective - List five functions of a bank.Criterion - As stated, 75% proficiency.Evaluation Method - Teacher ObservationComments -

1

SUBJECT: Mathematics
AREA: General Mathematics
GOAL: To apply those general mathematics skills required to work in the skilled trades and technologies.

Date
Achieved

1. Objective - Add, subtract, multiply and divide whole numbers.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - All Shops

2. Objective - Add, subtract, multiply and divide fractions.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - All Shops

3. Objective - Add, subtract, multiply and divide decimals.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - All Shops

4. Objective - Make mathematical estimations.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - All Shops

SUBJECT: Mathematics
TOPIC: General Mathematics
OBJECT: To apply those general mathematics skills required to work in the skilled trades and technologies.

Date
Achieved

5. Objective - Round off numbers.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments - All Shops

6. Objective - Compute in other number bases.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments - Electronics, Data Processing

7. Objective - Determine ratios and proportions.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments - All shops except Data Processing

8. Objective - Determine percent.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments - All shops

SUBJECT: Mathematics
 AREA: General Mathematics
 GOAL: To apply those general mathematics skills required to work in the skilled trades and technologies.

Date Intro.	Date Achieved			
_____	_____	9. <u>Objective</u> - Read/interpret charts, graphs and tables.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - All shops		
_____	_____	10. <u>Objective</u> - Use metric measurements.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Health Occupations, Automotive, Drafting & Design, Machine Trades		
_____	_____	11. <u>Objective</u> - Compute area and perimeter.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Sheet Metal, Building Trades, Climate Control, Drafting & Design Electrical Trades, Graphics (lay-out), Landscape/Horticulture, Masonry		
_____	_____	12. <u>Objective</u> - Determine volume.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Sheet Metal, Climate Control, Automotive (Engine Displacement), Masonry		

SUBJECT: Mathematics
 AREA: General Mathematics
 GOAL: To apply those general mathematics skills required to work in the skilled trades and technologies.

Date Intro.	Date Achieved			
_____	_____	13. <u>Objective</u> - Determine angle measurement.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Building Trades, Commercial Art, Drafting & Design, Graphics, Machine Trades, Plumbing & Piping, Sheet Metal, Welding, Electronics		
_____	_____	14. <u>Objective</u> - Compute using the pythagorean theorem.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Building Trades, Electrical Cluster, Machine Trades, Plumbing & Piping		
_____	_____	15. <u>Objective</u> - Use square root.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Building Trades, Electrical Cluster, Machine Trades, Plumbing & Piping		
_____	_____	16. <u>Objective</u> - Use exponents.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> - Same as Objective #15 above.		

SUBJECT: Mathematics
 AREA: General Mathematics
 GOAL: To apply those general mathematics skills required to work in the skilled trades and technologies.

Date
Intro.

Date
Achieved

17. Objective - Use scientific notation.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - Electrical Cluster

18. Objective - Compute with negative numbers.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - Electrical Cluster

SUBJECT: Mathematics
AREA: Algebra
GOAL: To apply those algebra skills required to work in the skilled trades and technologies.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Solve linear equations. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - Digital Electronics	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Use algebraic formulas. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - All Shops	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Compute with polynomials. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - Electrical Cluster	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Use systems of equations. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - Digital Electronics	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Mathematics
AREA: Algebra
GOAL: To apply those algebra skills required to work in the skilled trades and technologies.

Date Intro.	Date Achieved	
_____	_____	5. <u>Objective</u> - Employ trigonometric functions. <u>Criterion</u> - As stated, 75% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> - Machine Trades, Electrical Cluster, Plumbing & Piping (applied, non-technical approach)
_____	_____	6. <u>Objective</u> - Use exponents and logarithms. <u>Criterion</u> - As stated, 75% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> - Digital Electronics
_____	_____	7. <u>Objective</u> - Use vectors. <u>Criterion</u> - As stated, 75% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> - Digital Electronics
_____	_____	8. <u>Objective</u> - Determine matrices and determinants. <u>Criterion</u> - As stated, 75% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> - Digital Electronics

CT: Mathematics
Geometry

To apply those geometry skills required to work in the skilled trades and technologies.

Date
Achieved

_____ 1. Objective - Determine angles and perpendiculars.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - Building Trades, Commercial Art, Drafting & Design, Graphics, Machine Trades,
Plumbing & Piping, Sheet Metal, Welding, Electronics

_____ 2. Objective - Use parallel lines and planes.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - Commercial Art, Drafting & Design, Sheet Metal, Plumbing, Building Trades, Graphics, Masonry, Welding

_____ 3. Objective - Draw geometric constructions..

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - Drafting & Design, Sheet Metal (e.g., angle bisector)

_____ 4. Objective - Draw construction of geometric figures.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - Drafting & Design, Sheet Metal, Building Trades, Climate Control, Commercial Art, Graphics,
Landscape/Horticulture, Machine Trades, Masonry, Plumbing, Welding

SUBJECT: Auto Body
 AREA: Automotive Construction
 GOAL: To understand the development of automobile construction and design.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Describe the changes that have occurred in body and chassis design from the first cars to the present day automobile. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of body and chassis combination used on the modern automobile. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Define the terms standard body and unitized body. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - identify the components of the standard and unitized car bodies. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - List the body trim parts of an automobile. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
AREA: Automotive Construction
GOAL: To understand the development of automobile construction and design.

Date Date
Intro. Achieved

6. Objective - Using shop vehicles, identify the location of specific body and trim parts.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Hand and Power Tools
 GOAL: To be able to demonstrate the proper use of the tools used in the Auto Body trade.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the hand tools used in the auto body trade.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - State the use(s) of the hand tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Demonstrate the proper use of the hand tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - List the power tools used in the auto body trade.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - State the use(s) of the power tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Hand and Power Tools
 GOAL: To be able to demonstrate the proper use of the tools used in the Auto Body trade.

Date
Intro. Date
Achieved

1. Objective - List the hand tools used in the auto body trade.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - State the use(s) of the hand tools.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Demonstrate the proper use of the hand tools.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - List the power tools used in the auto body trade.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - State the use(s) of the power tools.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

(5)

SUBJECT: Auto Body
AREA: Hand and Power Tools
GOAL: To be able to demonstrate the proper use of the tools used in the Auto Body trade.

Date Date
Intro. Achieved

_____ _____ 6. Objective - Demonstrate the proper use of power tools.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation .
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Lifting Equipment
 GOAL: To operate and maintain hydraulic lifts, jacks and jackstands.

Date
Intro.

Date
Achieved

1. Objective - Identify various types of hydraulic lifts.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Perform maintenance checks on hydraulic lifts.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Set, raise and lower a shop vehicle on hydraulic lift.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Identify the different types of hydraulic jacks.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Perform maintenance checks on a hydraulic jack.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Lifting Equipment
 GOAL: To operate and maintain hydraulic lifts, jacks and jackstands.

Date Intro.	Date Achieved			
_____	_____	6. <u>Objective</u> - Set, raise and lower a shop vehicle on a hydraulic jack.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Demonstrate the use of a lube guide to locate jack points on a shop vehicle.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Identify the correct jack points for a specific vehicle.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Set a vehicle on jack stands.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Automotive Fasteners
 GOAL: To identify and install automotive fasteners.

Date
Intro.

Date
Achieved

1. Objective - List the different types of fasteners used on automobiles.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify the proper tools used to install various fasteners.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Demonstrate the removal and installation of various fasteners using the correct tools.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Auto Body
 AREA: Refinishing Material
 GOAL: To identify the types of refinishing materials used on cars and trucks.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the three (3) drying stages of paint.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Describe the three (3) different drying processes.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the three (3) basic ingredients of all paints.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Describe the different types of top coats used on cars and trucks.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Explain the disadvantages and advantages of the different top coats.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Refinishing Material
 GOAL: To identify the types of refinishing materials used on cars and trucks.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - List the types of undercoats used on cars and trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	7. <u>Objective</u> - Describe the purpose of each type of undercoat. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	8. <u>Objective</u> - List the types of cleaning agents and their purpose. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Surface Preparation
 GOAL: To be able to prepare an automobile surface for refinishing.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List the types of sandpaper and abrasives used in the auto body trade. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the purpose of each types of sandpaper and abrasives. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Define the terms hand sanding, feather-edging and block sanding. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the proper tools to be used with sandpaper/abrasives. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Demonstrate the different sanding operations using the correct tools and material. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Surface Preparation
 GOAL: To be able to mask an automobile for refinishing.

Date
Intro.

Date
Achieved

1. Objective - List the materials used to mask an automobile.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify the tools and equipment used to mask a vehicle.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Using a shop vehicle, demonstrate the masking of windows, trim parts and interior panels using the correct tools and material.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Spray Equipment
 GOAL: To be able to operate and maintain spray equipment.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the operation of an air compressor and drier assembly.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Identify the components of the air compressor and drier system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Describe the maintenance procedures for servicing air supply systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Perform maintenance checks on the air supply system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Explain the operation of a spray gun.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Spray Equipment
 GOAL: To be able to operate and maintain spray equipment.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - List the types of spray guns used in the auto body trade. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	7. <u>Objective</u> - Identify the components of a spray gun. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	8. <u>Objective</u> - Demonstrate the use of a spray gun for the different types of undercoats and topcoats. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Auto Body
 AREA: Fillers
 GOAL: To apply and finish body fillers.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List the types of body fillers. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Describe the application procedures for the different fillers. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Identify the tools used to apply and finish body fillers. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Using the correct tools, mix, apply and finish sand body filler on a shop vehicle. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Auto Body
 AREA: Welding
 GOAL: To be able to properly use oxy-acetylene equipment.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the uses of oxy-acetylene equipment in the auto body trade.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the components of oxy-acetylene equipment.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	3. <u>Objective</u> - Set up oxy-acetylene welding equipment.
		<u>Criterion</u> - As stated, minimum 100% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	4. <u>Objective</u> - Test oxy-acetylene equipment for safety.
		<u>Criterion</u> - As stated, minimum 100% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	5. <u>Objective</u> - Oxy-acetylene weld mild steel in accordance with proper procedure.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -

SUBJECT: Auto Body
 AREA: Welding
 GOAL: To be able to properly use oxy-acetylene equipment.

Date
Intro.

Date
Achieved

6. Objective - Braz: sheet metal patches in accordance with proper procedure.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Cut using the oxy-acetylene process following layout.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Form and bend using the oxy-acetylene process.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Welding
 GOAL: To be able to properly use the panelspotter.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the uses of the panelspotter in the auto body trade.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the components of the panelspotter.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the tools used to spot weld panels.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Using the correct tools, spot weld two 92) sheet metal panels.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Welding
 GOAL: To be able to properly mig weld automotive sheet metal.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the uses of mig welding in the auto body trade.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the components of the mig welder.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Set up equipment for mig welding.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Test mig equipment for safety.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Mig weld sheet metal patches.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Welding
 GOAL: To be able to properly use the plastic welder.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the uses of plastic welding in the auto body trade. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the components of the plastic welder. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the five (5) types of plastic rods and their application. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Set up equipment for plastic welding. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct rod, weld different types of plastics found in automobiles. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Sheet Metal Repair
 GOAL: To be able to properly repair automotive sheet metal damage.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the procedures for straightening sheet metal.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Identify the tools used to straighten sheet metal.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Determine the direction of force or impact on a damaged panel.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Estimate the extent of panel damage.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Rough out damaged panels using the correct tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Sheet Metal Repair
 GOAL: To be able to properly repair automotive sheet metal damage.

Date
Intro.

Date
Achieved

6. Objective - Apply sheet metal patches using the correct tools.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Shrink metal using the correct tools and equipment.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Panel Forming
 GOAL: To be able to fabricate replacement panels for damaged automobile bodies.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the types of sheet metal panels that are fabricated by auto body mechanics.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Identify the tools used in panel forming.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Bend a right angle flange using the correct tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Bend a flange along the edge of a crowned panel using the correct tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Form a rolled edge using the correct tools.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Panel Forming
 GOAL: To be able to fabricate replacement panels for damaged automobile bodies.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - Form a straight ridge or crease using the correct tools. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	7. <u>Objective</u> - Shape a flat sheet over a compound or double curve using the correct tools. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	8. <u>Objective</u> - Form a partial door panel using the correct tools. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Exterior and Interior Cleaning
 GOAL: To be able to properly detail an automobile.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List the materials and tools used to detail the exterior of an automobile. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Using the correct tools and materials demonstrate the detailing of an automobile exterior. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - List the types of interior trim materials used in automobiles. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and material used to detail automobile interiors. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct tools and material, demonstrate the detailing of an automobile interior. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Soldering
 GOAL: To be able to properly solder fill body joints and seams.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the uses of solder in automobile body joints and seams. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the materials needed to solder. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools used to solder and finish a body joint. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct tools and materials, solder, fill and finish a body joint. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Fitting Methods
 GOAL: To be able to properly fit body panels and units.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the types of body panels that require fitting.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Explain the causes of mis-fitting panels.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Describe the four (4) methods of panel fitting.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to align body panels.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Using the correct tools and equipment, demonstrate the fitting methods of the different body panels.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		

SUBJECT: Auto Body
 AREA: Suspensions and Steering Systems
 GOAL: To be able to properly diagnose and repair steering and suspension systems.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the steering and suspension system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Describe the types of steering and suspension systems used in automobiles. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - List the components of the different steering and suspension systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service steering and suspension systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - List the steps in checking steering and suspension damage. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
AREA: Suspension and Steering Systems
GOAL: To be able to properly diagnose and repair steering and suspension systems.

Date
Intro.

Date
Achieved

6. Objective - Using the correct tools and equipment, diagnose and repair a damaged steering and suspension system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Frame Straightening
 GOAL: To be able to properly diagnose and repair frame damage.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the types of frames used in automobiles.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Describe the components of each frame system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Explain the effects of frame misalignment on the different types of automobile frames.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to dimension and repair frame damage.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - List the sequence of steps involved in checking and repairing frame misalignment.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Body
AREA: Frame Straightening
GOAL: To be able to properly diagnose and repair frame damage.

Date Date
Intro. Achieved

_____ 6. Objective - Using the correct tools and equipment, dimension and repair a damaged frame system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Electrical Systems
 GOAL: To be able to perform service repairs to the electrical system.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List the components of the automotive electrical system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> -
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Describe the different circuits in an electrical system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> -
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service electrical systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> -
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	4. <u>Objective</u> - State the correct procedure for troubleshooting electrical system failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> -
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	5. <u>Objective</u> - Using the correct tools and equipment, troubleshoot and repair damaged electrical circuits. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> -
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Auto Body
 AREA: Cooling System
 GOAL: To be able to repair cooling system damage.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the operation of the cooling system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the components of the cooling system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service cooling systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Repair cooling system damage, using the correct tools and equipment. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Body
 AREA: Air Conditioning
 GOAL: To be able to properly repair air conditioning system damage.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Describe the operation of the air conditioning system.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of air conditioning systems used in automobiles.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the components of the air conditioning system.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service air conditioning systems.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	5. <u>Objective</u> - List the troubleshooting procedures for diagnosing air conditioning system failures.
		<u>Criterion</u> - As stated, minimum 68% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -

SUBJECT: Auto Body
AREA: Air Conditioning
GOAL: To be able to properly repair air conditioning system damage.

Date
Intro. Date
 Achieved

6. Objective - Using the correct tools and equipment, diagnose and repair an air conditioning system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Body
 AREA: Estimating
 GOAL: To be able to properly prepare a collision estimate.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Describe the steps involved in estimating collision damage. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the purpose of crash estimating guides. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - List the tools and equipment used to estimate collision damage. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct tools and equipment, diagnose the collision damage to an automobile. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Prepare a written estimate using a crash guide. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

(1)

SUBJECT: Auto Mechanics
APFA: Chassis Service
GOAL: To operate and maintain hydraulic lifts, jacks and jackstands.

Date
Achieved

1. Objective - Identify various types of hydraulic lifts.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Perform maintenance checks on hydraulic lifts.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Safely raise a vehicle on a hydraulic lift.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Identify the different types of hydraulic jacks used in the Auto Trade.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Perform routine safety checks on a hydraulic jack.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

(2)

SUBJECT: Auto Mechanics
AREA: Chassis Service
GOAL: To operate and maintain hydraulic lifts, jacks and jackstands.

Date
Intro. Date
Achieved

6. Objective - Demonstrate the safe use of a hydraulic jack.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Demonstrate the use of a lubrication guide to locate jack points on a vehicle.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Identify the correct jack points for a specific vehicle.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

9. Objective - Safely set a vehicle on jack stands.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

(3)

SUBJECT: Auto Mechanics
AREA: Chassis Service
GOAL: To perform periodic maintenance and service operations on a vehicle using the correct equipment.

Date
Intro.

Date
Achieved

1. Objective - Explain the purpose of vehicle lubrication.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of lubricants used in servicing automobiles.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to lubricate a vehicle.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the application of the different types of lubricants using the correct equipment.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Perform a vehicle safety check using a check off list.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

131A

131B

SUBJECT: Auto Mechanics
 AREA: Wheel and Tire Service
 GOAL: To perform service operations on tire/wheel assemblies.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the types of tires used on automobiles.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the types of wheels used on automobiles.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Correctly match tire and wheel types by application.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Mount and dismount a tire on a wheel using a tire machine.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the use of a bead seater to inflate a tire.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests

Comments

SUBJECT: Auto Mechanics
 REF: Wheel and Tire Service
 OBJECT: To perform service operations on tire/wheel assemblies.

Date
 Achieved

6. Objective - Inflate a tire to the proper air pressure.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

7. Objective - Explain the reasons for tire/wheel balancing.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

8. Objective - List the types of tire balancers used in the auto trade.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

9. Objective - Demonstrate the use of a bubble balancer.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

10. Objective - Explain the reasons for using a torque wrench to install lug nuts.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Wheel and Tire Service
 GOAL: To perform service operations on tire/wheel assemblies.

Date Intro.	Date Achieved	
_____	_____	11. <u>Objective</u> - Demonstrate the use of a torque wrench to install lug nuts on a wheel assembly. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	12. <u>Objective</u> - List the types of tire repair materials and tools used on automobiles. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	13. <u>Objective</u> - Repair a tire using the correct material and tools. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Mechanics
 AREA: Brakes
 GOAL: To service and repair hydraulic brake systems.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the principles of hydraulic brake operation.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the two main types of hydraulic brakes used on automobiles.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the components and function of a drum brake system.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the components and function of a disc brake system.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the removal and installation of a drum brake assembly.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Mechanics
 AREA: Brakes
 GOAL: To service and repair hydraulic brake systems.

Date
Intro. Date

Date
Achieved

6. Objective - Demonstrate the removal and installation of a disc brake assembly.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Disassemble, clean and reassemble a drum brake wheel cylinder.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Disassemble, clean and reassemble a disc brake caliper.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

9. Objective - Explain the purpose of bleeding a hydraulic brake system.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

10. Objective - Demonstrate bleeding a hydraulic brake system following manufacturers procedure.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Brakes
 GOAL: To service driven wheel bearings and seals.

Date
 Entry

Date
 Achieved

1. Objective - Explain the purpose of driven wheel bearings used in automobiles.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of driven wheel bearings used in automobiles.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Using the correct tools, remove, clean and inspect a set of wheel bearings.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Select the correct lubricant and manually repack a wheel bearing set.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the purpose of grease wheel seals.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Brakes
 GOAL: To service driven wheel bearings and seals.

Date
Intro.

Date
Achieved

6. Objective - List the types of grease seals used in automobile wheel assemblies.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Using the proper tools, remove and install a wheel bearing seal.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Install and adjust a set of wheel bearings according to manufactures specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Brakes
 GOAL: To perform brake drum and rotor service operations.

Date
Intro. Date
Achieved

1. Objective - Explain the purpose of machining brake rotors and drums.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Explain the term "wear limits."

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Demonstrate the use of a brake specification chart.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - List the types of tools used to determine wear limit and runout.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Demonstrate the use of a brake drum micrometer.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 TOPIC: Brakes
 GOAL: To perform brake drum and rotor service operations.

Date _____
 Achieved _____

6. Objective - Demonstrate the use of a rotor micrometer.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

7. Objective - Demonstrate the use of a dial indicator runout gauge on a rotor.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

8. Objective - Describe the types of lathes used to machine brake rotors and drums.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

9. Objective - Machine a brake drum within allowable wear limits.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

10. Objective - Machine a brake rotor within allowable wear limits.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Suspension and steering.
 GOAL: To trouble shoot, repair and adjust suspension/steering components.

Date
Intro.

Date
Achieved

1. Objective - List the different types of suspension/steering systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe the functions of each component in the suspension/steering system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - List the steps involved in trouble shooting suspension/steering systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Safety check the front end of an automobile following the manufacturer's specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Using the correct tools, disassemble, inspect and reinstall the component parts of a front end.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Suspension and Steering
 GOAL: To adjust the suspension/steering system to factory specifications.

Date
Intro.

Date
Achieved

1. Objective - Explain the purpose of suspension/steering alignment.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify the causes of abnormal tire wear and poor drivability.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Explain the terms, caster, camber, toe-in/toe-out and king pin inclination.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - List the types of equipment and tools used to adjust suspension/steering components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Adjust the caster, camber and toe-in, using the correct tools, to within specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Cooling Systems
 GOAL: To troubleshoot and repair the cooling system.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List and describe the function of each cooling system component. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Identify the tools and equipment used to service automotive cooling systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Safely remove the radiator cap and pressure test the cooling system. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Demonstrate the removal, inspection and repair of cooling system components. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Explain the reason for using summer/winter coolant. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Mechanics
 AREA: Cooling Systems
 GOAL: To troubleshoot and repair the cooling system.

Date
 Entered

Date
 Achieved

6. Objective - Using the correct equipment, check the protection level of the coolant.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

7. Objective - Replace the coolant in an automobile to the specified protection level.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Fuel Management Systems
 GOAL: To recognize the different fuel requirements for various automobile engines.

Date
Intro.

Date
Achieved

1. Objective - List the types of fuel used in automobile engines.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe the combustion process in gas and diesel engines.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - List and identify the components of automobile fuel systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Describe the different types of fuel delivery systems used in automobiles.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the special safety precautions to be followed when working on automotive fuel systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Fuel Management Systems
 ONE: To perform service operations on carburetors.

Date
 Achieved

1. Objective - List the different types of carburetors used in automobiles.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe the function of each carburetor component.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the specialty tools and equipment used to service carburetors.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - List the cleaning chemicals used to service carburetors.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - Using the correct tools and chemicals, disassemble, clean, inspect, reassemble and adjust a carburetor to specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

SUBJECT: Auto Mechanics
PLAN: Fuel Management Systems
GOAL: To perform service operations on carburetors.

Date
INTRO. Date
Achieved

6. Objective - Adjust a carburetor with the engines running to specifications using the proper equipment.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Fuel Management Systems
 GOAL: To perform service operations on fuel injection systems.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List the different types of fuel injection systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Describe the function of fuel injection components. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the specialty tools and equipment used to service fuel injection systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - List the different types of malfunctions with fuel injection systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct tools and equipment, remove, repair and adjust a fuel injection system to specifications. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Auto Mechanics
 TOPIC: Exhaust and Emission Systems
 GOAL: To diagnose and repair exhaust system problems.

DATE: _____
 PERIOD: _____

Date
 Achieved

1. Objective - Describe the function of the exhaust system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the components of the exhaust system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the specialty tools and equipment used on exhaust systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Trouble shoot and repair an exhaust system component(s).

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Exhaust and Emission Systems
 GOAL: To service exhaust emission control systems.

Date
 Achieved

1. Objective - Explain the purpose of exhaust emission controls.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the components of exhaust emission control systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service exhaust/emission systems.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the use of flow chart specifications manual.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - Using the I/R analyzer, adjust the emission levels of an automobile to specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Heating and Air Conditioning
 GOAL: To perform service operations on the heating/air distribution system.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the operation of the heating system.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the components of the heating/air distribution system.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Demonstrate the removal, repair, and replacement of the heating component parts.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Mechanics
 AREA: Heating and Air Conditioning
 GOAL: To perform service operations on the air conditioning system.

Date
Intro.

Date
Achieved

1. Objective - Explain the principles of refrigeration.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the components of the automotive air conditioning system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment needed to service the air conditioning system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Using the proper manual, locate the refrigeration specifications for a particular vehicle.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Using the correct equipment, performance test and leak check a refrigeration system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
TOPIC: Heating and Air Conditioning
OBJECT: To perform service operations on the air conditioning system.

DATE: _____
TIME: _____
Date Achieved

6. Objective - Using the correct equipment, discharge, evacuate and recharge a refrigeration system to specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Electrical Systems
 GOAL: To display a knowledge of basic electrical principles.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Define the terms ohm, amps, volts and watts and Ohm's Law. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of circuits used in automotive electrical systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Explain the properties of magnetism and electro-magnetism. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service auto electrical systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - List the types of conductors and connectors used in automotive electrical systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Mechanics
AREA: Electrical Systems
GOAL: To display a knowledge of basic electrical principles.

Date
Intro.

Date
Achieved

6. Objective - Perform voltage, current and resistance checks on an auto electrical system using the correct equipment.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Electrical Systems
 GOAL: To service the battery and charging system components.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Describe the function of the storage battery in the automotive electrical system. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the materials used in battery construction. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the equipment used to test and recharge automotive batteries. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the proper equipment safely, performance test an automotive battery. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Demonstrate the procedure for recharging a battery safely. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Mechanics
 AREA: Electrical Systems
 GOAL: To service the battery and charging system components.

Date Achieved	
_____	6. <u>Objective</u> - Explain the purpose of the charging system. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	7. <u>Objective</u> - Describe the types of charging systems used in automobiles. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	8. <u>Objective</u> - List the components of the charging system. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	9. <u>Objective</u> - Identify the equipment used to check and repair charging system components. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	10. <u>Objective</u> - Demonstrate the disassembly, repair and reassembly of charging system components to specifications. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Mechanics
AREA: Electrical Systems
GOAL: To service the battery and charging system components.

Date Date
Intro. Achieved

11. Objective - Using the correct equipment, performance test an automobile charging system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Electrical Systems
 GOAL: To service the automotive starting system.

DATE: _____
 TIME: _____
 Date Achieved

1. Objective - Explain the function of the automotive starting system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the components of the different starting systems used in automobiles.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service starting system components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Using the proper equipment, disassemble, check and reassemble the components of the starting system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - Demonstrate the correct procedure for troubleshooting a starting system in a vehicle.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Electrical Systems
 GOALS: To service automotive ignition systems.

Date Achieved			
		1. <u>Objective</u> - Explain the function of the ignition system. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		2. <u>Objective</u> - List the types and differences of ignition systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		3. <u>Objective</u> - Identify the tools and equipment needed to service ignition systems. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		4. <u>Objective</u> - Demonstrate the installation and adjustment of a point type ignition system using the correct tools. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		5. <u>Objective</u> - Demonstrate the installation and adjustment of an electronic ignition system. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Auto Mechanics
AREA: Electrical Systems
GOAL: To service automotive ignition systems.

Date
Intro. Date
Achieved

6. Objective - Explain the reasons for computerized ignition controls.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - List the types of computerized ignition controls.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Using the correct equipment, trouble shoot and repair computerized ignition controls according to specifications.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
TOPIC: Engine Operation and Service
OBJECT: To identify and explain the operation of various types of engines.

Date _____
 Achieved _____

1. Objective - Explain the operation of combustion engines.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of engines used in automobiles.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Define the terms torque and horsepower.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain the function and purpose of a dynamometer.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - Describe the effects of humidity, pressure and temperature on engine performance.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Engine Operation and Service
 GOAL: To identify and prepare an engine block for overhaul.

Date _____
 Achieved

1. Objective - List the materials used in engine block construction.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - Explain the terms cylinder arrangement and cylinder numbering.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - List the tools and material used to clean engine blocks.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain the function of the component parts used in the engine block.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - List the tools and equipment used to measure and install engine bearings.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
AREA: Engine Operation and Service
GOAL: To identify and prepare an engine block for overhaul.

Date
Intro.

Date
Achieved

6. Objective - Using the correct equipment, remove check and reinstall the component parts of the engine block.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation •
Teacher-made Oral/Written Tests

Comments -

7. Objective - Describe the types and functions of cooling jackets in the engine block.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Engine Operation and Service
 COAL: To service the components of the engine lubrication system.

Date
Intro.

Date
Achieved

1. Objective - Explain the purpose of engine lubrication.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the components of the engine lubricating system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools used to service the lubrication system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the servicing, repair and installation of the lubrication system components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the function of engine gaskets and seals.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

Auto Mechanics

Engine Operation and Service

To service the components of the engine lubrication system.

Date
Achieved

6. Objective - List the types of seals and gaskets used in engines.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Demonstrate the removal, inspection and installation of engine gaskets and seals using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Engine Operation and Service
 GOAL: To service the engine crankshaft/bearing system.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the types of crankshafts used in engines.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the materials used in crankshaft construction.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the types of crankshaft bearings used in auto engines.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - List the operations involved in servicing crankshafts.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the services operations involved in crankshaft overhaul using the correct tools.		
		<u>Criterion</u> - As stated, minimum 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Auto Mechanics
AREA: Engine Operation and Service
GOAL: To service the engine crankshaft/bearing system.

Date
Intro. Date
 Achieved

6. Objective - Remove, inspect and install a crankshaft according to specification using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Engine Operation and Service
 GOAL: To service the cylinder head/valve assembly.

DATE
 IN PRO.

Date
 Achieved

1. Objective - Explain the function of the cylinder head/valve assembly components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of cylinder heads used in automotive engines.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service cylinder heads and valve assemblies.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the service operations performed on cylinder head/valve assemblies using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

5. Objective - Remove, inspect, service and install a cylinder head according to specifications using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

SUBJECT: Auto Mechanics
 AREA: Engine Operation and Service
 GOAL: To service the valve timing assembly.

Date
 Intro.

Date
 Achieved

1. Objective - Explain the purpose of valve timing.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of valve timing assemblies and their components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service valve timing assemblies.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Remove, inspect and reinstall the valve timing components according to specifications using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Power Train
 GOAL: To service clutch assemblies.

Date
Intro.

Date
Achieved

1. Objective - Explain the purpose of a clutch

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of clutches and clutch covers and their components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service clutch assemblies.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the removal, replacement and adjustment of a clutch assembly using the proper tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Power Train
 GOAL: To service driveshafts and universal joints.

Date _____
 Intro. _____
 Date Achieved _____

1. Objective - Explain the function of the driveshaft and universal joints.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of drive shafts and universal joints.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service driveshaft components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the removal, inspection and installation of a driveshaft assembly using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Power Train
 GOAL: To service manual transmissions.

DATE ACHIEVED	
_____	1. <u>Objective</u> - Explain the theory and function of a manual transmission. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	2. <u>Objective</u> - List the types of manual transmissions and their components. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	3. <u>Objective</u> - Identify the tools and equipment used to service manual transmissions. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	4. <u>Objective</u> - Using the correct tools, demonstrate the disassembly, inspection, reassembly and adjustment of a shop transmission. <u>Criterion</u> - As stated, minimum 70% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Auto Mechanics
 AREA: Power Train
 GOAL: To service automatic transmissions

Date
Intro.

Date
Achieved

1. Objective - Explain the function of an automatic transmission.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of automatic transmissions.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Describe the components of an automatic transmission.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - List the tools and equipment used to service automatic transmissions.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Perform basic services operations on a shop unit using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments - 216

SUBJECT: Auto Mechanics
 AREA: Power Train
 NAME: To service a differential assembly.

DATE: _____
 TIME: _____
 Date Achieved

1. Objective - Explain the function of the differential.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the components of the differential.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service differential assemblies.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Perform minor service operations on a shop differential unit using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Auto Mechanics
 AREA: Power Train
 GOAL: To service transaxle assemblies.

DATE
 Achieved

1. Objective - Explain the function of the transaxle assembly.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of transaxles and their components.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service transaxle assemblies.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Perform minor service adjustments to a shop transaxle unit using the correct tools.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Building Trades
 AREA: Introduction
 GOAL: To develop an appreciation for the role of a carpenter.

Date
Intro.

Date
Achieved

1. Objective - Name eight (8) job titles found within the building trades.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Explain the nature of apprenticeship.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Discuss current job opportunities in the Building Trades in Gloucester County.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain the cooperation needed with other various construction trades.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Building Trades
 AREA: Hand and Power Tools
 GOAL: To use safely all carpentry hand and power tools.

Date
 Intro. Date
 Achieved

1. Objective - Identify the hand tools used by a carpenter.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - State the use(s) of the hand tools.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Correctly use hand tools.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Identify the power tools used by a carpenter.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Building Trades
 AREA: Hand and Power Tools
 GOAL: To use safely all carpentry hand and power tools.

Date
Intro.

Date
Achieved

5. Objective - Explain the correct operation of power tools.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

6. Objective - Safely operate power tools.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Build a carpenter's tool box using hand and power tools.

Criterion - Build to specifications.

Evaluation Method - Teacher Observation.

Comments -

SUBJECT: Building Trades
 AREA: Building Materials
 GOAL: To be familiar with the material and uses of same in the building trades.

Date Initialed	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify grades of lumber and lumber by-products.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Explain the application of grades of lumber and lumber by-products.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify cement products.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Explain the applications of cement products.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Building Trades
 AREA: Building Materials
 COAL: To be familiar with the material and uses of same in the building trades.

Date Intro.	Date Achieved		
_____	_____	5. <u>Objective</u> - Identify asphalt products. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	6. <u>Objective</u> - Explain the applications of asphalt products. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	7. <u>Objective</u> - Identify plastics materials. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	8. <u>Objective</u> - Explain the applications of plastics. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Building Trades
 AREA: Building Materials
 GOAL: To be familiar with the material and uses of same in the building trades.

Date Intro.	Date Achieved		
_____	_____	9. <u>Objective</u> - Build small project using plastic material.	
		<u>Criterion</u> - Build to specifications.	<u>Evaluation Method</u> - Teacher Observation
		<u>Comments</u> -	
_____	_____	10. <u>Objective</u> - Identify soft metals.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	11. <u>Objective</u> - Explain the application of soft metals.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	12. <u>Objective</u> - Identify insulation products.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	13. <u>Objective</u> - Explain the applications of insulation materials.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	

SUBJECT: Building Trades
 AREA: Blueprint Reading
 GOAL: To read and interpret working drawings and building specifications.

Date
Intro.

Date
Achieved

1. Objective - Identify symbols and scales on blueprints.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Build a simple structure to scale according to blueprints.

Criterion - Within specifications $\pm \frac{1}{4}$ ".

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Draw a simple blueprint given building specifications.

Criterion - As stated, 95% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Building Trades
 AREA: Leveling Instruments
 COAL: To use a builder's level correctly.

Date
 Intro. Achieved

1. Objective - Identify a builder's level, story pole, target pole, batter-boards and datum points.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - State the use of a builder's level, story pole, target pole, batter-boards and datum points.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Build a simple structure which is level.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

4. Objective - Build a simple structure which is level and square.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Building Trades
 AREA: Surveying
 GOAL: To properly use surveying techniques and equipment in construction layout.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Identify surveying equipment. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - State the uses of surveying equipment. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Layout a simple structure. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Building Trades
AREA: Form Construction
GOAL: To properly construct various types of forms.

Date
Intro. Date
 Achieved

1. Objective - Layout and construct forms for sidewalks, drives, slabs and paving.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Construct forms for footer installation.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Building Trades
 AREA: Floor Framing
 GOAL: To properly frame floors.

Date Achieved	
_____	1. <u>Objective</u> - Identify the different parts of floor frames. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	2. <u>Objective</u> - Install sills, termite shield and sill sealer. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation
_____	3. <u>Objective</u> - Erect girders, beam and columns. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation
_____	4. <u>Objective</u> - Install floor joist. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation
_____	5. <u>Objective</u> - Install bridging. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation

SUBJECT: Building Trades
AREA: Floor Framing
GOAL: To properly frame floors.

Date
Intro.

Date
Achieved

6. Objective - Install sub flooring.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Building Trades
 AREA: Wall and Ceiling Framing
 GOAL: To properly frame walls and ceilings.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Identify parts of walls and ceilings. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Layout plates and rough openings on exterior walls. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Cut and assemble corner posts. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Cut and fabricate headers and rough sills. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Assemble and erect exterior wall section. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Building Trades
 AREA: Wall and Ceiling Framing
 GOAL: To properly frame walls and ceilings.

Date
Intro. Date
Achieved

6. Objective - Install double plate.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Install backing for fixtures.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

8. Objective - Layout, cut and install ceiling joist.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

9. Objective - Layout and cut nailers or backers.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Building Trades
 AREA: Roof Framing
 GOAL: To correctly frame roofs.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Identify the types of roofs and their component parts. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Layout, cut and, install rafters. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Install gable end studs. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Fabricate and install roof trusses. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Install roof sheathing. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Building Trades
 AREA: Roofing
 GOAL: To properly install roofing materials.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Identify types of roofing materials. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Install drip edge and flashing. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Install asphalt shingles and caps. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Install roll roofing. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Install wood shingles. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Building Trades
 AREA: Exterior Finish
 GOALS: To properly install different types of exterior finish.

DATE
 INDEX

Date
 Achieved

1. Objective - Identify different parts and types of exterior finish.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - Install exterior doors, windows and hardware.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Install fascia, soffit, freeze board and moldings.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Install vapor barrier and wall finish.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Building Trades
AREA: Insulation
GOAL: To properly apply different types of insulation.

Date
Intro.

Date
Achieved

1. Objective - Ventilate attic and crawl spaces.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Install thermal insulation and vapor barrier.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Install accoustic insulation and sound control.

Criterion - As stated, to specifications.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Building Trades
 AREA: Interior Trim
 GOAL: To properly install different types of interior trim.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Identify different types of interior trim. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Install gypsum wall board. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Install plywood paneling. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Install suspended ceilings. <u>Criterion</u> - As stated, to specifications. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Building Trades
AREA: Interior Trim
GOAL: To properly install different types of interior trim.

Date
Intro. Date
 Achieved

5. Objective - Install doors.

Criterion - As stated, to specifications.

Comments -

Evaluation Method - Teacher Observation

6. Objective - Install window and door trim.

Criterion - As stated, to specifications.

Comments -

Evaluation Method - Teacher Observation

7. Objective - Install base board and trim.

Criterion - As stated, to specifications.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Building Trades
 AREA: Stairs
 GOAL: To properly construct and install stairs.

Date
 Achieved

- | | | |
|--------------|---|---|
| <p>_____</p> | <p>1. <u>Objective</u> - Identify types of stairs and stair parts.</p> <p><u>Criterion</u> - As stated, 75% proficiency.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation
Teacher-made Oral/Written Tests</p> |
| <p>_____</p> | <p>2. <u>Objective</u> - Layout, cut and install stringers.</p> <p><u>Criterion</u> - As stated, to specifications.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |
| <p>_____</p> | <p>3. <u>Objective</u> - Layout, cut and install risers and treads.</p> <p><u>Criterion</u> - As stated, to specifications.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |
| <p>_____</p> | <p>4. <u>Objective</u> - Layout, cut and install newells, balusters and handrails.</p> <p><u>Criterion</u> - As stated, to specifications.</p> <p><u>Comments</u> -</p> | <p><u>Evaluation Method</u> - Teacher Observation</p> |

SUBJECT: Climate Control

AREA: Introduction

GOAL: To understand the nature of the work and employment opportunities within the field of Climate Control.

Date
Intro. Date
 Achieved

1. Objective - Name 5 local employers in the area of Climate Control.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe the three (3) areas of employment in Climate Control.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - List the major developments in the history of refrigeration.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Identify the major system components.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the purpose of the major system components.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Introduction

GOAL: To understand the nature of the work and employment opportunities within the field of Climate Control.

Date	Date
Intro.	Achieved

_____	_____	6. <u>Objective</u> - Given a system drawing, label and explain the components.
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Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Pressure - Temperature Relationship
 GOAL: To understand the relationship of temperature to gas pressure.

Date
Intro. Date
Achieved

1. Objective - Properly use a pressure - temperature card.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List 3 causes of pressure - temperature changes.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Give the change of state temperature of water, R12, R22 & R502.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain the causes of fusion and vaporization in a refrigeration system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Temperature Measurement

GOAL: To have a working knowledge of temperature measuring devices calibrated in fahrenheit and centigrade.

Date
Intro. Date
Achieved

1. Objective - Define fahrenheit and centigrade temperature scales.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify freezing and boiling points in both scales.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Properly use conversion charts.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Define centigrade and fahrenheit comfort zone.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Read a dial, stem, digital, alcohol and mercury thermometer.

Criterion - As stated, 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Copper Tubing Skills
 GOAL: To properly make fittings using copper tubing.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify various sizes of copper tube.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Identify various fittings used in the trade.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the uses of various types of solder and flux.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Flare, swedge and solder copper tubing.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Make neat, leak-proof, professional joints.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AFEA: Refrigeration Tools and Instruments
 GOAL: To properly use refrigeration tools and instruments.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify hand tools and refrigeration test instruments.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Properly use hand tools and refrigeration test instruments.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Explain the correct usage, care of and safe handling of tools.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Properly use a gauge manifold, vacuum pump and charging cylinder.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - use those instruments to service a shop unit in a safe, professional manner.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control

AREA: Heat Transfer

GOAL: To understand the nature of heat transfer as it applies to Climate Control.

Date
Intro. Date
Achieved

1. Objective - List and define the 3 methods of heat transfer.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Explain the difference between insulator and conductor.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Given a list of materials, identify the insulators and conductors.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Gases
 GOAL: To understand the nature of gasses as they apply to Climate Control.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Define PSIG and PSIA <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the behavior of gasses under varying pressure and temperature conditions. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Given a set of circumstances, predict the behavior of a refrigerant gas. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - List and explain the 3 fundamental gas laws. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Explain how the gas laws apply to refrigeration. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Climate Control
 AREA: Pressure
 GOAL: To properly use a gauge manifold to find leaks.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify the parts of a gauge manifold.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Install a gauge in a system.		
		<u>Criterion</u> - As stated, minimum 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Read pressures and correlate to temperature.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - List 3 techniques that can be used in finding leaks in a system.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - State the safe working procedures and conditions for finding leaks.		
		<u>Criterion</u> - As stated, minimum 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control

AREA: Pressure

GOAL: To properly use a gauge manifold to find leaks.

Date Intro.	Date Achieved
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_____	_____	6. <u>Objective</u> - Find leaks in a system using a variety of leak testing devices.
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Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Climate Control
 AREA: Basic Refrigeration
 GOAL: To understand the principles and components of refrigeration systems.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the basic refrigeration cycle.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Draw the system, label the components, describe their purpose and indicate the direction of flow.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Name two (2) types of absorption systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Describe how an absorption system operates.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - List the component parts of an absorption system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Basic Refrigeration
 GOAL: To understand the principles and components of refrigeration systems.

Date
Intro. Date
Achieved

6. Objective - Diagram the system, label the components, and explain the operations.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - List the dangers of an absorption system.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - List the chemical and physical properties of R12, R22, R502, and R11.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

9. Objective - Discuss refrigerants, using the boiling point, chemical name and temperature range.

Criterion - As stated, minimum 63% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

10. Objective - List 3 controlling organizations that set refrigeration standards and state their area of interest.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Basic Refrigeration
 GOAL: To understand the principles and components of refrigeration systems.

Date Intro.	Date Achieved	
		11. <u>Objective</u> - List the safety hazards in working with refrigerants. <u>Criterion</u> - As stated, 100% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
		12. <u>Objective</u> - Work safely with refrigerants. <u>Criterion</u> - As stated, 100% proficiency. <u>Evaluation Method</u> - Teacher Observation <u>Comments</u> -
		13. <u>Objective</u> - List the types of oil used in a refrigeration system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
		14. <u>Objective</u> - Properly add oil to a system. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
		15. <u>Objective</u> - Given a system and temperature range, select the proper oil and add the correct amount to the system using the proper procedure. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Climate Control
 AREA: Basic Refrigeration
 GOAL: To understand the principles and components of refrigeration systems.

Date
Intro. Date
Achieved

16. Objective - List 5 precautions taken in the handling of refrigeration oil.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

17. Objective - List the symptoms of common service problems.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

18. Objective - Given a set of symptoms, identify the cause.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

19. Objective - Identify the malfunctions in shop units using a logical progression of steps in service techniques.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Electrical Concepts
 GOAL: To understand and safely apply electrical concepts to Climate Control.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Name 5 sources of energy.		
		<u>Criterion</u> - As stated, minimum 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Explain electron theory.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Explain the principles of magnetism.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Explain the relationship of magnetism and electricity.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Explain how magnetism works an electric motor.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Electrical Concepts
 GOAL: To understand and safely apply electrical concepts to Climate Control.

Date Intro.	Date Achieved			
_____	_____	6. <u>Objective</u> - Given various work situations, state what action should be taken to avoid electrical hazards.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Define "insulator" and "conductor"		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Name at least 5 insulators and conductors.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Correlate wire size and amp load to measure conduction.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	10. <u>Objective</u> - Name 3 different types of electrical circuits.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Electrical Concepts
 GOAL: To understand and safely apply electrical concepts to Climate Control.

Date Intro.	Date Achieved			
_____	_____	11. <u>Objective</u> - Identify sample circuits.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	12. <u>Objective</u> - Read values of a given circuit with various meters to determine voltage, amperage and ohm.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	13. <u>Objective</u> - Explain Ohm's law of electricity.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	14. <u>Objective</u> - Given the formula, calculate variables in a circuit.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	15. <u>Objective</u> - Name three (3) types of meters.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
AREA: Electrical Concepts
GOAL: To understand and safely apply electrical concepts to Climate Control.

Date Intro.	Date Achieved
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16. Objective - List the important points of meter care.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Transformers and Motors
 GOAL: To understand the proper use of transformers and motors.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify various types of transformers.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Given a set of job requirements, recommend the correct transformer.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Describe the operation of a single phase motors.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Describe the operation of three phase motors.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
AREA: Transformers and Motors
GOAL: To understand the proper use of transformers and motors.

Date Date
Intro. Achieved

5. Objective - Dismantle various motors, identify and explain the purpose of the components.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Relays, Contactors, Starters and Circuit Protection

GOAL: To understand the principles and uses of relays, contactors, starters and circuit protection.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - State the purpose of a starting relay.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Explain the operation of 3 relays.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Describe the operation of a motor starter.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Wire 2 different types of motor starters.		
		<u>Criterion</u> - As stated, minimum 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - List 5 types of motor protection devices.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Commercial Refrigeration
 GOAL: To understand and safely apply the principles of commercial refrigeration.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Identify 3 employers in 3 areas of commercial refrigeration. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Identify various pieces of commercial refrigeration equipment. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Given a a list of products, list the storage time of each. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Given a list of products and storage requirements, recommend the proper packaging. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Given a list of products, recommend the proper storage temperature. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Climate Control
 AREA: Commercial Refrigeration
 GOAL: To understand and safely apply the principles of commercial refrigeration.

Date Intro.	Date Achieved			
_____	_____	6. <u>Objective</u> - Identify different types of evaporators.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Define the choice of an evaporator for a particular applications.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Adjust superheat and explain refrigerant evaporation.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Install evaporators using proper procedures.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Commercial Refrigeration
 GOAL: To understand and safely apply the principles of commercial refrigeration.

Date Intro.	Date Achieved			
_____	_____	10. <u>Objective</u> - List two (2) reason for defrosting evaporator coils and explain the importance of each.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	11. <u>Objective</u> - List and describe 3 methods of defrosting.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	12. <u>Objective</u> - Given a list of factors for cooling load, calculate compressor size.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	13. <u>Objective</u> - Design a piping diagram for compressors.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Condensers
 GOAL: To understand and apply the principals of condensers.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Identify various types of commercial condensers. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Design a piping system for a water cooled condenser and include a materials list. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Describe water tower operation. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Given a list of water tower problems prescribe remedial action. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Climate Control
 AREA: Refrigerant Lines
 GOAL: To work safely and properly with refrigerant lines.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify the refrigerant lines in a commercial system.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Given a drawing of a system, label the lines.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Given a list of symptoms, name the piping problems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify safely hazards and how to avoid them when given examples of job situations involving refrigerant lines.		
		<u>Criterion</u> - As stated, minimum 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control
 AREA: Metering Devices
 GOAL: To properly use metering devices.

Date
Intro.

Date
Achieved

1. Objective - Name 3 metering devices.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Explain the operation of 3 metering devices.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Given a set of job requirements, determine the applicable size and device to be used.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Commercial Accessories
 GOAL: To properly identify and employ commercial accessories.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify various accessories in common use on commercial systems.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Show where they are found in the system.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - State the purpose of common accessories.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Explain the operation of common accessories.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Climate Control

AREA: Insulation

GOAL: To understand the need for insulation in conditioned spaces.

Date
Intro. Date
 Achieved

1. Objective - Explain the need for insulation.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify five (5) types of insulation.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Discuss the insulation value of different material relative to each other.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Given 3 insulators, explain why and where it would be used.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Describe how heat is gained in a conditioned space.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Insulation

GOAL: To understand the need for insulation in conditioned spaces.

Date Intro.	Date Achieved
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_____	_____	6. <u>Objective</u> - Given load requirements, calculate BTU gain of any space, convert to tons and recommend unit size.
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Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Installation, Start Up and Service
 GOAL: To properly install, start up and service commercial systems.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Name 3 sources of codes governing installation of commercial equipment. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Given various work situations, describe good installation. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - List a start up check list. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Given a set of circumstances that may require future maintenance, detail preventive practices. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Given a list of service problems, identify if they are mechanical, electrical or a combination of both. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Climate Control
AREA: Installation, Start Up and Service
GOAL: To properly install, start up and service commercial systems.

Date
Intro. Date
 Achieved

6. Objective - Develop a systematic approach to diagnosing service problems.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Introduction to the Heating System
 GOAL: To understand the evolution of the heating system and the heating industry.

Date
Intro. Date
Achieved

1. Objective - List three (3) types of heating systems.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Place the development of the heating system in historical order.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Explain the importance of technical training to a service person.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Oil Burner Components
 GOAL:

Date Date
 Intro. Achieved

1. Objective - List the parts of a high pressure gun type oil burner.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

2. Objective - Recognize the assembled and disassembled component on sight.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

3. Objective - Explain and make adjustments on each component of the high pressure gun type oil burner.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Basic Heating Systems
 GOAL: To understand the theory and operation of basic heating systems.

Date
Intro. Date
Achieved

1. Objective - Outline in proper order the sequence of operation of the 3 basic systems.

Criterion - As stated, minimum 68% proficiency,

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify the components of the 3 basic systems (diagram and live systems)

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - State and explain the 4 laws of combustion.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain the interdependence of the laws of combustion.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Basic Heating Systems
 GOAL: To understand the theory and operation of basic heating systems.

Date Date
 Intro. Achieved

5. Objective - Describe what to look for on a correctly adjusted fire.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

6. Objective - Correctly adjust a flame.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

7. Objective - Describe the need for safely in oil burner servicing.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

8. Objective - Given a set of symptoms, make a diagnosis of the combustion problem involved.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

9. Objective - Properly use a Bachrach test kit.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Basic Heating Systems
 GOAL: To understand the theory and operation of basic heating systems.

Date Date
 Intro. Achieved

10. Objective - Take combustion tests on various pieces of equipment and make recommendations for efficiency improvement.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

11. Objective - Make adjustments necessary for proper combustion.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Automatic Controls

GOAL: To understand the operation, installation, trouble shooting and repair of automatic controls.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the purpose of automatic burner controls.
		<u>Criterion</u> - As stated, minimum 70% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	2. <u>Objective</u> - Describe the operation of controls as they relate to various systems.
		<u>Criterion</u> - As stated, minimum 70% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	3. <u>Objective</u> - Describe the operation of various types of thermostats.
		<u>Criterion</u> - As stated, minimum 70% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	4. <u>Objective</u> - Make recommendations for thermostat installation.
		<u>Criterion</u> - As stated, minimum 70% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -
_____	_____	5. <u>Objective</u> - Describe the operation of various types of common limit controllers.
		<u>Criterion</u> - As stated, minimum 70% proficiency.
		<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -

SUBJECT: Climate Control
 AREA: Automatic Controls
 GOAL: To understand the operation, installation, trouble shooting and repair of automatic controls.

Date
Intro. Date
Achieved

6. Objective - Demonstrate the operation of various types of common limit controllers.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Describe the purpose of primary controls.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Explain the operation of primary controls.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

9. Objective - Given a set of drawn circuits, draw in the wires.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

10. Objective - Given a set of various steam circuit diagrams, fill in the wires.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Automatic Controls

GOAL: To understand the operation, installation, trouble shooting and repair of automatic controls.

Date Date
Intro. Achieved

____ ____ 11. Objective - Given a set of hot water diagrams, fill in the wires.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

____ ____ 12. Objective - Given a set of diagrams for warm air, fill in the wires.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Electrical Service Problems
 GOAL: To be able to diagnose and repair electrical service problems.

Date
Intro. Date
Achieved

1. Objective - Given a set of symptoms, diagnose the area(s) of malfunction.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Trace the wiring of a shop unit.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Trace electricity service problems in shop units within a reasonable amount of time.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Repair electrical service problems in shop units within a reasonable amount of time.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Firing the New System
 GOAL: To safely and properly fire new heating systems.

Date
Intro. Date
Achieved

1. Objective - List in order of importance the 5 steps for first start up.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe a combustion chamber in relationship to size, shape and materials.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Construct 3 different types and shapes of combustion chambers in a neat professional manner.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Chimneys and Drafts
 GOAL: To understand the purpose of a chimney.

Date
Intro.

Date
Achieved

1. Objective - Describe the purpose of a chimney.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Explain how a chimney works.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Diagnose problems related to the chimney with a draft gauge or mirror.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Tanks and piping

GOAL: To recognize different storage tanks and understand the basic piping systems.

Date
Intro. Date
 Achieved

1. Objective - Given pictures and measures, identify 3 different tanks.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the fittings and pipe sizes necessary to install an oil tank in a simulated job.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Heat Loss Survey
 GOAL: To properly conduct a heat loss survey.

Date
Intro. Date
Achieved

1. Objective - Given a diagram of different types of construction, identify each type.

Criterion - As stated, minimum 60% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Calculate the heat loss for a single family dwelling.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control

AREA: Passive and Active Solar Energy

GOAL: To apply the principles of solar energy to home climate control.

Date
Intro. Date
Achieved

1. Objective - Outline the historical implication of solar energy.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe the "greenhouse effect."

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the types of passive systems in use from slides of solar passive homes.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain 2 types of thermal mass.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the operation of 3 types of active solar systems.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Passive and Active Solar Energy
 GOAL: To apply the principles of solar energy to home climate control.

Date Date
 Intro. Achieved

6. Objective - Identify the components of an active solar system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

7. Objective - Perform the steps of piping a solar hot water system.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

8. Objective - Given the necessary materials, wire a differential controller with 2 sensors and a pump.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Air Conditioning
 GOAL: To be able to install, diagnose and repair air conditioning systems.

Date
Intro. Date
Achieved

1. Objective - Name and briefly describe the physical laws governing the air conditioning cycle.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher-made Oral/Written Tests

Comments -

2. Objective - Properly and safely use the tools and equipment of the air conditioning trade.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - List the components of a central air conditioning system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Show on a diagram the placement of central components in relationship to each other.

Criterion - As stated, minimum 80% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the function of the components of a central air conditioning system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Air Conditioning
 GOAL: To be able to install, diagnose and repair air conditioning systems.

Date
Intro.

Date
Achieved

6. Objective - Identify pictures of various duct fittings.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Make neat, straight cuts with various types of shears.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Identify the various controls used in central air conditioning.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

9. Objective - Describe the function of the various controls used in central air conditioning.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Air Conditioning
 GOAL: To be able to install, diagnose and repair air conditioning systems.

Date Date
 Intro. Achieved

10. Objective - Draw a wiring diagram for a basic air conditioning system.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

11. Objective - Wire a live shop unit using a diagram so that all functions work.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

12. Objective - Given a unit with a simple problem, trace the circuit and locate the problem.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

13. Objective - Given a series of controls, check out these controls and indicate the defective units.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Air Conditioning
 GOAL: To be able to install, diagnose and repair air conditioning systems.

Date
Intro. Date
Achieved

14. Objective - List the possible component failures of the mechanical system.

Criterion - As stated, minimum 70% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

15. Objective - Explain the symptoms of component failures of the mechanical system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

16. Objective - Check out shop units for mechanical problems.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

19. Objective - Logically and safely repair component failures.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Climate Control
 AREA: Customer Relations
 GOAL: To present a professional appearance and attitude when dealing with the public.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the importance of a good 1st impression on an employer. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the importance of the impression one makes on a customer as a company representative. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Conduct oneself in a mature, professional manner. <u>Criterion</u> - As stated, 100% proficiency. <u>Evaluation Method</u> - Teacher Observation <u>Comments</u> -

SUBJECT: Commercial Art
AREA: Introduction
GOAL: To become aware of the history and role of Commercial Art in today's society.

Page 1

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Briefly explain the origins of Commercial Art in fine art. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Identify various job titles within the field of Commercial Art. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Name the work stations and equipment in the Commercial Art classroom. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Made Oral/Written Tests Teacher Observation <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Describe the function(s) of the equipment. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Identify the hand tools used in Commercial Art. <u>Criterion</u> - As stated, 70% proficiency. <u>Evaluation Method</u> - Teacher Made Oral/Written Tests <u>Comments</u> -

SUBJECT: Commercial Art
AREA: Introduction
GOAL: To become aware of the history and role of Commercial Art in today's society.

Page 2

Date Intro.	Date Achieved
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_____	_____ 6. <u>Objective</u> - Demonstrate the safe and proper use of the hand tools.
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Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Drawing
GOAL: To be able to draw simple and complex drawings.

Page 3

Date
Intro.

Date
Achieved

1. Objective - Draw the cube, cone, sphere and cylinder.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Make a contour drawing.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Make a gesture drawing.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Color
GOAL: To understand the nature of color and the proper use of same.

Page 4

Date
Intro. Date
 Achieved

1. Objective - Prepare a transparent color wheel.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

2. Objective - Prepare a transparent color wheel.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Prepare a color chart.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Prepare a monochromatic tonal chart.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Prepare a tonal chart.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Rendering
GOAL: To render an illustration utilizing a variety of media.

Date
Intro.

Date
Achieved

1. Objective - Render an illustration in charcoal.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

2. Objective - Render an illustration in pen and ink.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Render an illustration with a mechanical pen.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Render an illustration with brush and ink.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Render an illustration in water color.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Rendering
GOAL: To render an illustration utilizing a variety of media.

Page 6

Date
Initialed

Date
Achieved

6. Objective - Render an illustration in opaques.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

7. Objective - Render an illustration in felt tip markers.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Photography
GOAL: To be able to take a well balanced photograph, develop and mount it.

Page 7

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Select the proper film and camera. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	2. <u>Objective</u> - Arrange lighting (indoors). <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Take meter reading and set camera. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Adjust film speed. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Focus lens on subject. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Commercial Art
AREA: Photography
COAL: To be able to take a well balanced photograph, develop and mount it.

Page 8

Date
Intro. Date
 Achieved

6. Objective - Take picture.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

7. Objective - Advance and/or remove film.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

8. Objective - Safely develop black and white film.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

9. Objective - Make a contact print.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

10. Objective - Make an enlargement.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

11. Objective - Develop and dry print.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Photography
GOAL: To be able to take a well balanced photograph, develop and mount it.

Page 9

Date Intro.	Date Achieved		
_____	_____	12. <u>Objective</u> - Critically view print. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	13. <u>Objective</u> - Safely dispose of chemicals and clean area. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	14. <u>Objective</u> - Select and cut board. Determine location by measuring picture and board. Mount print. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	15. <u>Objective</u> - Make a copy enlargement and reduction on the repromaster. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	16. <u>Objective</u> - Touch up flaws on a negative. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Commercial Art
AREA: Photography
GOAL: To be able to take a well balanced photograph, develop and mount it.

Page 10

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Date
Intro. Date
 Achieved

17. Objective - Properly maintain the camera.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

18. Objective - Properly maintain darkroom equipment.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

SUBJECT: Commercial Art
AREA: Lettering/Caligraphy
COAL: To be able to hand letter utilizing a variety of lettering styles.

Page 11

Date
Intro. Date
 Achieved

1. Objective - Identify various types of lettering styles.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Make Oral/Written Tests

Comments -

2. Objective - Copy various types of lettering styles in pencil.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Copy various types of lettering styles in pen and ink.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Create a new style of lettering (rough).

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

5. Objective - Reduce rough to finished art.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Lettering/Caligraphy
GOAL: To be able to hand letter utilizing a variety of lettering styles.

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Page 12

Date
Intro.

Date
Achieved

6. Objective - Clean-up finished art.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Layout a sign with copy.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

8. Objective - Check space of letters and words.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

9. Objective - Do a comprehensive of a sign with copy in only one (1) style.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

10. Objective - Do a comprehensive of a sign with copy in several styles.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Layout
GOAL: To be able to prepare a newspaper layout.

Page 13

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Date
Intro.

Date
Achieved

1. Objective - Analyze layout/design elements and requirements.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Make thumbnail sketches.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Prepare full-sized layout.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Make comprehensive

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

5. Objective - Prepare for presentation.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Illustration
GOAL: To create a market able illustration.

Page 14

Date
Intro. Date
 Achieved

1. Objective - Analyze situation to be illustrated.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

2. Objective - Draw a thumbnail or rough.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Draw a cartoon.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Create a greeting card.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Create an illustration for a book, story or magazine.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Illustration
GOAL: To create a market able illustration.

Page 15

Date
Intro.

Date
Achieved

6. Objective - Prepare a full-sized layout of the illustration.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Interior Design
GOAL: To possess a basic understanding of interior design.

Page 16

Date
Intro.

Date
Achieved

1. Objective - Select and coordinate colors.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

2. Objective - Make roughs using colors.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Obtain pattern samples.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Rough layout of patterns on walls, fixtures.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Make comprehensive art of the pattern.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Interior Design
COAL: To possess a basic understanding of interior design.

Page 17

Date
Intro. Date
 Achieved

6. Objective - Draw movable and fixed fixtures.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Coordinate color, patterns, objects and density.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

8. Objective - Make a rough of finished interior using a minimum of two (2) views.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

9. Objective - Make comprehensive art of interior.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

10. Objective - Make scale model using objectives #4, #6, and #8 (Balsa wood/cardboard)

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Packaging
GOAL: To design and construct a form of commercial packaging.

Page 18

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Make a layout. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	2. <u>Objective</u> - Fold and score layout. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Analyze color vs black and white patterns. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Make color working model. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Design copy. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Commercial Art
AREA: Packaging
GOAL: To design and construct a form of commercial packaging.

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Page 19

Date
Intro. Date
 Achieved

6. Objective - Apply copy to model.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

404

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405

SUBJECT: Commercial Art
AREA: 3-Dimensional Design (Sculpture)
GOAL: To employ the principals of 3-dimensional design in commercial sculpturing.

Page 20

Date
Intro. Date
 Achieved

1. Objective - Draw a rough of an object in relief form.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Use colors to accent depths and high points on a comprehensive.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Make a model using any media to form object.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Paint object model according to comprehensive.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Mechanical Production and Paste-Up
GOAL: To understand and apply the principals of mechanical production and paste-up.

Page 21

Date
Intro.

Date
Achieved

1. Objective - Interpret layout.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

2. Objective - Locate position of elements.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Paste-up elements on board.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Size and key separate art.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Make marginal instructions.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Art
AREA: Mechanical Production and Paste-Up
GOAL: To understand and apply the principals of mechanical production and paste-up.

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Page 22

Date
Intro.

Date
Achieved

6. Objective - Apply tissue and flap.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Prepare mechanical for color separation and screens.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Art
AREA: Typography
GOAL: Will understand and apply basic typographical principles.

Page 23

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Date
Intro. Date
 Achieved

1. Objective - Identify various type faces.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

2. Objective - Analyze requirements of production work.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

3. Objective - Choose and code type for head and sub-head.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

4. Objective - Choose and order type for body copy.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Art
AREA: Typography
GOAL: Will understand and apply basic typographical principles.

Page 24

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Date
Intro. Date
 Achieved

5. Objective - Select type face.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Art
AREA: Typography
GOAL: Will understand and apply basic typographical principles.

Page 25

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Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Identify various type faces. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Analyze requirements of production work. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Choose and order type for head and sub-head. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Choose and order type for body copy. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests

SUBJECT: Commercial Art
AREA: Typography
GOAL: Will understand and apply basic typographical principles.

Page 26

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Date
Initialed

Date
Achieved

5. Objective - Select type face for compatibility with illustration/photo.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

6. Objective - Select type, size and leading.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Art
AREA: Airbrushing
GOAL: To understand and apply basic air brushing techniques in photo retouching.

Page 27

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Determine areas on photo to be changed.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher Made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Apply frisket paper and prepare photo for airbrush.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher Made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Mix paint and prepare airbrush equipment for use.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher Made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Use airbrush.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher Made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Clean airbrush equipment.		
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher Made Oral/Written Tests
		<u>Comments</u> -		

420

421

SUBJECT: Commercial Art
AREA: Airbrushing
GOAL: to make an airbrush rendering.

Page 28

Date
Intro. Date
 Achieved

1. Objective - Analyze task requirements.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

2. Objective - Prepare surface for airbrushing.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

3. Objective - Mix paint and prepare airbrush equipment.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

4. Objective - Render airbrush illustration.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Clean airbrush equipment.

Criterion - As stated, 70% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

SUBJECT: Commercial Art
AREA: TV Art
COAL: To possess a basic understanding of art as it applies to TV production.

Page 29

Date
Intro. Date
 Achieved

1. Objective - Select size and scale for art work.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

2. Objective - Design and layout art.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

3. Objective - Design stage backdrop.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

4. Objective - Prepare story board.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Art
AREA: Drafting
COAL: To possess a basic understanding of the application of drafting skills in commercial art.

Page 30

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Draw orthographic projections..	
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	2. <u>Objective</u> - Make an isometric.	
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	3. <u>Objective</u> - Draw a mechanical illustration.	
		<u>Criterion</u> - As stated, 70% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
		<u>Comments</u> -	

SUBJECT: Commercial Art
AREA: Silk Screen
GOAL: To understand and apply basic and advanced techniques in the art of silk screen work.

Page 31

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Stencil film selection. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Transfer the design. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Enlarge/reduce the design. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Safely cut the stencil. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	5. <u>Objective</u> - Select and mount on printing frame. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests

SUBJECT: Commercial Art
AREA: Silk Screen
GOAL: To understand and apply basic and advanced techniques in the art of silk screen work.

Page 32

Date
Intro. Date
 Achieved

6. Objective - Select and apply ink, properly using a squeegee.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

7. Objective - Cut multi-stencils for multi-color printing.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

8. Objective - Register the screen for multi-color work.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

9. Objective - Clean the frame between colors.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Art
AREA: Silk Screen
GOAL: To understand and apply basic and advanced techniques in the art of silk screen work.

Page 33

Date
Intro. Date
 Achieved

_____ _____ 10. Objective - Mix and apply inks for extra effects.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

_____ _____ 11. Objective - Store silk screen materials properly.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Observation
Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Art
AREA: Portfolio
GOAL: To prepare a portfolio of the student's best work for job seeking purposes.

Page 34

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Write a resume. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Select art work for portfolio. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Mat artwork properly. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Balance artwork to represent a variety of media. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests
_____	_____	5. <u>Objective</u> - Determine order of presentation. <u>Criterion</u> - As stated, 70% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher Made Oral/Written Tests

SUBJECT: Commercial Art
AREA: Portfolio
GOAL: To prepare a portfolio of the student's best work for job seeking purposes.

Page 35

Date Date
Intro. Achieved

6. Objective - Describe the difference between contracting and freelance work.

Criterion - As stated, 70% proficiency.

Evaluation Method - Teacher Made Oral/Written Tests

Comments -

SUBJECT: Commercial Foods
AREA: Introduction
GOAL: To become aware of the wide range of career opportunities and the duties of each.

Page 1

Date
Intro.

Date
Achieved

1. Objective - Name six (6) general job titles in the Commercial Foods industry and briefly describe their duties.

Criterion - As stated, 75% proficiency

Evaluative Method - Oral/Written Tests
Teacher Observation

Comments -

2. Objective - Demonstrate work procedures required by safety and health codes, Title 12.

Criterion - As stated, 100% proficiency

Evaluative Method - Teacher Observation

Comments -

3. Objective - Identify the hand tools and large equipment used in the kitchen.

Criterion - As stated, 75% proficiency

Evaluative Method - Oral/Written Tests
Teacher Observation

Comments -

4. Objective - Demonstrate safe and proper use of hand tools and large equipment.

Criterion - As stated, 75% proficiency

Evaluative Method - Teacher Observation

Comments -

5. Objective - Demonstrate safe and proper maintenance of hand tools and large equipment.

Criterion - As stated, 75% proficiency

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: General Kitchen Operations
GOAL: To understand the proper kitchen procedures and station responsibilities.

Page 2

Date
Intro. Date
Achieved

1. Objective - Name the work stations in the kitchen.

Criterion - As stated, 70% proficiency

Evaluative Method - Oral/Written Tests

Comments -

2. Objective - List the duties of each of the work stations.

Criterion - As stated, 70% proficiency

Evaluative Method - Oral/Written Tests

Comments -

3. Objective - List four (4) cooking methods.

Criterion - As stated, 75% proficiency

Evaluative Method - Oral/Written Tests

Comments -

4. Objective - Outline the correct procedures used in basic food preparation.

Criterion - As stated, 85% proficiency

Evaluative Method - Oral/Written Tests

Comments -

SUBJECT: Commercial Foods
AREA: Pot and Pan Washer
CONT: To safely and efficiently perform the duties of a pot and pan washer.

Page 3

Date _____
Achieved

1. Objective - Prepare work area.

Criterion - As stated, 100% proficiency

Comments -

Evaluative Method - Teacher Observation

2. Objective - Clean and sanitize pots/pans/utensils.

Criterion - As stated, 100% proficiency

Comments -

Evaluative Method - Teacher Observation

3. Objective - Clean work area.

Criterion - As stated, 100% proficiency

Comments -

Evaluative Method - Oral/Written Tests
Teacher Observation

SUBJECT: Commercial Foods
AREA: Dishwasher/Garbage Disposal
GOAL: To safely and efficiently perform the duties of a dishwasher.

Page 4

Date
Intro. Date
 Achieved

1. Objective - Prepare dishwashing area.

Criterion - As stated, 100% proficiency

Comments -

Evaluative Method - Teacher Observation

2. Objective - Prepare wares for washing.

Criterion - As stated, 100% proficiency.

Comments -

Evaluative Method - Teacher Observation

3. Objective - Wash wares

Criterion - As stated, 100% proficiency.

Comments -

Evaluative Method - Teacher Observation

4. Objective - Operate dishwasher

Criterion - As stated, 100% proficiency.

Comments -

Evaluative Method - Teacher Observation

5. Objective - Clean dishwashing area

Criterion - As stated, 100% proficiency.

Comments -

Evaluative Method - Teacher Observation

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SUBJECT: Commercial Foods
AREA: Garbage Disposal
GOAL:

Page 5

Date
Intro. Date
 Achieved

6. Objective - Check the pre-operation checklist.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

7. Objective - Operate the garbage disposal according to directions.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

8. Objective - Clean disposal.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

9. Objective - Clean work area

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
GRADE: Storeroom Attendant
GOALS: To safely and efficiently perform the duties of a storeroom attendant.

Page 6

Date
Intro. Date Achieved

1. Objective - Receive goods.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

2. Objective - Store goods.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

3. Objective - Distribute goods.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

4. Objective - Clean storage and receiving areas.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

5. Objective - Inventory goods.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Storeroom Attendant
COAL:

Page 7

Date
Intro. Date
 Achieved

6. Objective - Check items received against requisitions.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

7. Objective - Assemble foods according to proper kitchen procedure.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

8. Objective - Check quality of assembled foods.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Assistant Cook - Prepare Foods for Cook
GOAL: To correctly and safely perform the duties of a cook's helper.

Page 3

Date
Intro. Date
 Achieved

1. Objective - Read a recipe or follow verbal instructions.

Criterion - As stated, 85% proficiency.

Evaluative Method - Teacher Observation

Comments -

2. Objective - Assemble all ingredients.

Criterion - As stated, 85% proficiency.

Evaluative Method - Teacher Observation

Comments -

3. Objective - Assemble the proper tools and utensils.

Criterion - As stated, 85% proficiency.

Evaluative Method - Teacher Observation

Comments -

4. Objective - Place product in proper utensil.

Criterion - As stated, 85% proficiency.

Evaluative Method - Teacher Observation

Comments -

5. Objective - Safely operate needed preparation equipment.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Assistant Cook - Prepare Foods for Cook
GOAL: To correctly and safely perform the duties of a cook's helper.

Page 9

Date Intro.	Date Achieved
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_____	_____	6. <u>Objective</u> - Properly store leftovers.
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_____	_____	<u>Criterion</u> - As stated, 85% proficiency.
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_____	_____	<u>Comments</u> -
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Evaluative Method - Teacher Observation

_____	_____	7. <u>Objective</u> - Clean work area.
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_____	_____	<u>Criterion</u> - As stated, 100% proficiency.
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_____	_____	<u>Comments</u> -
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Evaluative Method - Teacher Observation

SUBJECT: Commercial Foods
APEN: Assistant Cook - Operate scales
CCL:

Page 10

DATE
RECORDED

Date
Achieved

1. Objective - Check the pre-operation checklist.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Correctly operate the scales.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Properly portion food by calculation, viewing, measuring and weighing.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Clean scale.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

5. Objective - Clean work area.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

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SUBJECT: Commercial Foods
AREA: Assistant Cook - Hospitality/Breaklines
GOAL:

Page 11

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Assemble serving utensils and containers. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluative Method</u> - Teacher Observation
_____	_____	2. <u>Objective</u> - Organize serving/break line area. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluative Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Organize serving techniques. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluative Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Assemble needed dishes. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluative Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Plate according to preplanned portion and arrangement. <u>Criterion</u> - As stated, 100% proficiency. <u>Comments</u> -	<u>Evaluative Method</u> - Teacher Observation

SUBJECT: Commercial Foods
AREA: Assistant Cook - Hospitality/Breaklines
GOAL:

Page 12

Date Date
Intro. Achieved

6. Objective - Garnish plated items.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Assistant Cook - Breading foods
GOAL:

Page 13

Date
Intro.

Date
Achieved

1. Objective - Read recipe.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

2. Objective - Assemble required ingredients, tools and utensils.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

3. Objective - Set up breading procedure.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

4. Objective - Bread food.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Assistant Cook - Breeding Foods
GOAL:

Page 14

Date
Intro. Date
 Achieved

5. Objective - Store leftover materials.

Criterion - As stated, 75% proficiency.

Evaluative Method - Teacher Observation

Comments -

6. Objective - Clean work area.

Criterion - As stated, 100% proficiency.

Evaluative Method - Teacher Observation

Comments -

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465

SUBJECT: Commercial Foods
AREA: Waiter/Waitress
GOAL: To promptly and efficiently perform the duties of a waiter/waitress.

Page 15

Date
Intro. Date
 Achieved

1. Objective - Correctly set a table.

Criterion - As stated, 75% proficiency.

Comments -

Evaluative Method - Teacher Observation

2. Objective - Serve customers properly.

Criterion - As stated, 75% proficiency.

Comments -

Evaluative Method - Teacher Observation

3. Objective - Transport prepared foods.

Criterion - As stated, 75% proficiency.

Comments -

Evaluative Method - Teacher Observation

4. Objective - Clear and clean tables.

Criterion - As stated, 75% proficiency.

Comments -

Evaluative Method - Teacher Observation

5. Objective - Load and carry bussing tray.

Criterion - As stated, 75% proficiency.

Comments -

Evaluative Method - Teacher Observation

SUBJECT: Commercial Foods
AREA: Waiter/Waitress
GOAL: To promptly and efficiently perform the duties of a waiter/waitress.

Page 16

DATE: _____
FILLED: _____

Date
Achieved

_____ 6. Objective - Store and maintain equipment for special events.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

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469

SUBJECT: Commercial Foods
AREA: Hospitality Line Worker
GOAL: To safely and efficiently perform the duties of a cafeteria line worker.

Page 17

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Turn on steam table; place food in; tear down. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	2. <u>Objective</u> - Stock line for service. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Set up menu board. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Operate cash register. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Record sales breakdown. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Commercial Foods
AREA: Hospitality Line Worker
GOAL: To safely and efficiently perform the duties of a cafeteria line worker.

Page 18

Date Date
Intro. Achieved

_____ _____ 6. Objective - Balance cash register.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Entree Cook
GOAL: Safely and efficiently perform the duties of an entree cook.

Page 19

Date Intro.	Date Achieved		
		1. <u>Objective</u> - Butcher meat	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation
		<u>Comments</u> -	
		2. <u>Objective</u> - Prepare meat entree	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation
		<u>Comments</u> -	
		3. <u>Objective</u> - Prepare poultry entree.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation
		<u>Comments</u> -	
		4. <u>Objective</u> - Prepare fish entree.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation
		<u>Comments</u> -	
		5. <u>Objective</u> - Operate range.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation
		<u>Comments</u> -	

SUBJECT: Commercial Foods
AREA: Entree Cook
GOAL: Safely and efficiently perform the duties of an entree cook.

Page 20

Date
Intro.

Date
Achieved

6. Objective - Operate oven.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Operate steam kettle.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Soup and Sauce Cook
GOAL: To safely and efficiently perform the duties of a soup and sauce cook.

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Page 21

Date
Intro. Date
 Achieved

1. Objective - Prepare stock.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

2. Objective - Prepare sauce.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Prepare gravy.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Prepare soup.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Operate range.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Foods
AREA: Soup & Sauce Cook
GOAL: To safely and efficiently perform the duties of a soup and sauce cook.

Page 22

Date Intro.	Date Achieved
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_____	_____	6. <u>Objective</u> - Operate steam kettle.
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Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
Vegetable Cook
To safely and efficiently perform the duties of a vegetable cook.

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Page 23

Date
Achieved

1. Objective - Prepare vegetables.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

2. Objective - Prepare starches.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

3. Objective - Operate vertical chopper (VCM)

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

4. Objective - Operate slicer.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

5. Objective - Operate steam kettle.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Foods
AREA: Baker
GOAL: To safely and efficiently perform the duties of a baker.

Page 24

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Maintain and clean equipment. <u>Criterion</u> - As stated, 100% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	2. <u>Objective</u> - Clean and sanitize pots, pans and utensils. <u>Criterion</u> - As stated, 100% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	3. <u>Objective</u> - Dispose of trash and garbage. <u>Criterion</u> - As stated, 100% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	4. <u>Objective</u> - Handle and store supplies. <u>Criterion</u> - As stated, 100% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation
_____	_____	5. <u>Objective</u> - Prepare and bake yeast doughs. <u>Criteria</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation

SUBJECT: Commercial Foods
AREA: Baker
GOAL: To safely and efficiently perform the duties of a baker.

Page 25

Date
Intro. Date
 Achieved

6. Objective - Prepare cookies, pie crust, french pastry, etc.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

7. Objective - Prepare cakes and quick breads.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

8. Objective - Prepare icings and frostings.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

9. Objective - Decorate cakes.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

10. Objective - Prepare puddings and fillings.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: . Pantry Worker
GOAL: To safely and efficiently perform the duties of a pantry worker.

Page 26

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Date
Intro. Date
 Achieved

1. Objective - Prepare salad dressing & garnishes.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Clean salad greens.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Clean vegetables for salad.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

4. Objective - Prepare vegetable salads.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Commercial Foods
AREA: Pantry Worker
GOAL: To safely and efficiently perform the duties of a pantry worker.

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Page 27

Date
Intro. Date
Achieved

5. Objective - Prepare fruit salads.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

6. Objective - Prepare congealed salads.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

7. Objective - Prepare filling for sandwiches.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

8. Objective - Prepare garnishes for sandwiches.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Foods
AREA: Pantry Worker
GOAL: To safely and efficiently perform the duties of a pantry worker.

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Page 28

Date
Intro. Date
 Achieved

9. Objective - Prepare sandwiches.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

10. Objective - Prepare canapes and hors d'oeuvres.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation

SUBJECT: Commercial Foods
AREA: Hygiene and Sanitation
GOAL: To understand and practice acceptable personal hygiene.

Page 29

Date
Intro. Date
Achieved

1. Objective - Maintain bodily cleanliness.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Wear appropriate clean uniform and hair coverings.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

3. Objective - Adhere to Gloucester County Health Department hygiene regulations and standards.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation

Comments -

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494

495

SUBJECT: Commercial Foods
AREA: Food Science
GOAL: To Show an understanding of the importance of the sciences involved in foods.

Page 30

DATE
ACHIEVED

1. Objective - Identify various types of food-borne diseases.

Criterion - As stated, 75% proficiency.

Evaluation Method - Oral/Written Tests
Oral/Written Reports

Comments -

2. Objective - Explain the need for temperature control.

Criterion - As stated, 75% proficiency.

Evaluation Method - Oral/Written Tests
Oral/Written Reports

Comments -

3. Objective - List food equivalents and substitutions.

Criterion - As stated, 75% proficiency.

Evaluation Method - Oral/Written Tests
Oral/Written Reports

Comments -

SUBJECT: Commercial Foods
AREA: Nutrition
GOAL: To understand the need for maintaining proper nutritional procedures.

Page 31

Date
Intro. Date
Achieved

1. Objective - List the 4 Basic Food Groups

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments -

2. Objective - List required nutrients.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments -

3. Objective - Explain the nature of the U.S. Recommended Daily Allowances.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments -

4. Objective - Develop sample menus for medical conditions requiring specific diets.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Reports

Comments -

5. Objective - State the goal(s) of the Dairy Council and American Dietetic Association.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments 498

499

SUBJECT: Commercial Foods
Menu Planning
GOAL: To efficiently and economically plan menus for large groups.

Page 32

DATE
ACHIEVED

1. Objective - Gather details from customer.

Criterion - As stated, 100% proficiency.

Evaluation Methods - Teacher Observation
Oral/Written Reports

Comments -

2. Objective - Obtain contract, filled out correctly and signed.

Criterion - As stated, 100% proficiency.

Evaluation Methods - Teacher Observation
Oral/Written Reports

Comments -

3. Objective - Calculate correct quantity of food, beverage and condiments needed.

Criterion - As stated, 100% proficiency.

Evaluation Methods - Teacher Observation
Oral/Written Reports

Comments -

4. Objective - Cost out items needed and total costs.

Criterion - As stated, 100% proficiency.

Evaluation Methods - Teacher Observation
Oral/Written Reports

Comments -

5. Objective - Prepare proper menu.

Criterion - As stated, 100% proficiency.

Evaluation Methods - Teacher Observation
Oral/Written Reports

Comments -

500

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501

SUBJECT: Commercial Foods
AREA: Menu Planning
GOAL: To efficiently and economically plan menus for large groups.

Page 33

Date Date
Intro. Achieved

6. Objective - Collect recipes and distribute to proper kitchen personnel for preparation.

Criterion - As stated, 100% proficiency.

Evaluation Methods - Teacher Observation
Oral/Written Reports

Comments -

SUBJECT: Commercial Foods
AREA: Food Service Layout and Kitchen Design
GOAL: To develop an efficient kitchen design and layout.

Page 34

Date
Intro. Date
 Achieved.

_____ _____ 1. Objective - Identify various types of kitchen designs.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments -

_____ _____ 2. Objective - Select the types of equipment to be used and determine their sizes for placements.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments -

_____ _____ 3. Objective - Draw a floor plan for efficient and to scale placement of equipment.

Criterion - As stated, 75% proficiency.

Evaluation Methods - Oral/Written Tests
Oral/Written Reports

Comments -

SUBJECT: Cosmetology
STATE: State Laws and Specialization Areas
OBJECT: To be able to identify and differentiate between the various licenses in the field of Cosmetology.

Date
Achieved

- _____ 1. Objective - State the duties and licensing requirements of a manicurist.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
- _____ 2. Objective - State the duties and licensing requirements of a beauty culture operator (Cosmetologist)
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
- _____ 3. Objective - State the duties and licensing requirements of a beauty culture manager-operator.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
- _____ 4. Objective - State the duties and licensing requirements of a beauty culture demonstrator.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
- _____ 5. Objective - State the duties and licensing requirements of a beauty culture teacher.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -

SUBJECT: Cosmetology
AREA: State Laws and Specialization Areas
GOAL: To be able to identify and differentiate between the various licenses in the field of Cosmetology.

Date Date
Intro. Achieved

6. Objective - State other specialization areas within the realm of the licensed Cosmetologist.

Criterion - As stated, 75% proficiency.

Evaluation Method - Oral/Written Tests

Comments -

SUBJECT: Cosmetology
AREA: Sanitation and Sterilization
GOAL: Demonstrate the proper sanitation and sterilization precautions employed in a beauty salon.

Date
Intro. Date
 Achieved

- | | | | |
|-------|-------|---|--|
| _____ | _____ | 1. <u>Objective</u> - Demonstrate the proper use of chemicals in sterilization. | |
| | | <u>Criterion</u> - As stated, 75% proficiency. | <u>Evaluation Method</u> - Teacher Observation |
| | | <u>Comments</u> - | |
| _____ | _____ | 2. <u>Objective</u> - State sanitation and sterilization procedures required by law. | |
| | | <u>Criterion</u> - As stated, 75% proficiency. | <u>Evaluation Method</u> - Oral/Written Tests |
| | | <u>Comments</u> - | |
| _____ | _____ | 3. <u>Objective</u> - State recommended shop practices related to sanitation and sterilization. | |
| | | <u>Criterion</u> - As stated, 75% proficiency. | <u>Evaluation Method</u> - Oral/Written Tests |
| | | <u>Comments</u> - | |
| _____ | _____ | 4. <u>Objective</u> - Demonstrate the proper use of chemicals in sterilization. | |
| | | <u>Criterion</u> - As stated, 75% proficiency. | <u>Evaluation Method</u> - Teacher Observation |
| | | <u>Comments</u> - | |
| _____ | _____ | 5. <u>Objective</u> - Perform routine housekeeping duties. | |
| | | <u>Criterion</u> - As stated, 75% proficiency. | <u>Evaluation Method</u> - Teacher Observation |
| | | <u>Comments</u> - | |

SUBJECT: Cosmetology
AREA: Sanitation and Sterilization
GOAL: Demonstrate the proper sanitation and sterilization precautions employed in a beauty salon.

Date
Intro. Date
 Achieved

6. Objective - Demonstrate the safe handling of supplies.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

7. Objective - Demonstrate the safe use of electrical equipment.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

8. Objective - State ways to protect self and the public from skin injuries and infections.

Criterion - As stated, 75% proficiency

Evaluation Method - Oral/Written Tests

Comments -

9. Objective - Demonstrate ways to protect self and public from skin and infections.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

10. Objective - Demonstrate the safe handling of implements employed in the trade.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

11. Objective - State the physical properties of bacteria.

Criterion - As stated, 75% proficiency

Evaluation Method - Oral/Written Tests

Comments -

SUBJECT: Cosmetology
AREA: Sanitation and Sterilization
GOAL: Demonstrate the proper sanitation and sterilization precautions employed in a beauty salon.

Date
Achieved

- _____ 12. Objective - Identify possible infectious agents.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
- _____ 13. Objective - Identify the various methods of bacteria destruction.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
- _____ 14. Objective - Identify various methods of bacteria destruction.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -

SUBJECT: Cosmetology
AREA: Patron Preparation
GOAL: To be able to demonstrate the proper patron preparation.

Date
Intec. Date
 Achieved

1. Objective - Demonstrate the proper patron preparation for manicure.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation

Comments -

2. Objective - Identify the proper patron preparation for a pedicure.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher-Made Written Tests

Comments -

3. Objective - Demonstrate the proper patron preparation for face, scalp and hair care.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Cosmetology
Hands and Feet
To be able to perform a variety of services safely to the hands and feet.

Date
Achieved

1. Objective - Identify and describe the structure of a nail.
Criterion - As stated, 75% proficiency. Evaluation Method - Oral Written Test
Comments -
2. Objective - Identify the implements and chemicals used in a manicure.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
3. Objective - Describe the manicure procedure
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
4. Objective - Demonstrate a proper manicure.
Criterion - As stated (Clinical) Evaluation Method - Teacher Observation
Comments -
5. Objective - Identify the implements and chemicals used in a pedicure.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -
6. Objective - Describe the pedicure procedure.
Criterion - As stated, 75% proficiency Evaluation Method - Oral/Written Tests
Comments -

SUBJECT: Cosmetology
TOPIC: Hands and Feet
GOAL: To be able to perform a variety of services safely to the hands and feet.

Date
Achieved

7. Objective - Describe nail repair.

Criterion - As stated

Evaluation Method - Teacher Observation
Oral/Written Tests

Comments -

8. Objective - Describe the application of artificial nails.

Criterion - As stated

Evaluation Method - Teacher Observation
Oral/Written Tests

Comments -

9. Objective - Identify nail diseases.

Criterion - As stated, 75% proficiency.

Evaluation Method - Written/Oral Tests

Comments -

10. Objective - Identify nail disorders.

Criterion - As stated, 75% proficiency.

Evaluation Method - Written/Oral Tests

Comments -

11. Objective - Identify methods to bleach off color from nails/lighten arm or leg hair.

Criterion - As stated

Evaluation Method - Oral/Written Tests

Comments -

SUBJECT: Cosmetology
AREA: Hands and Feet
GOAL: To be able to perform a variety of services safely to the hands and feet.

Date
Intro. Date
 Achieved

12. Objective - Demonstrate arm and hand massage.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

13. Objective - Identify various methods of hair removal.

Criterion - As stated

Evaluation Method - Oral/Written Tests

Comments -

SUBJECT: Cosmetology
AREA: Scalp
GOAL: To safely perform those services related to scalp treatment.

Date
Intro. Date
 Achieved

32

Objective - Examine the scalp.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

33

Objective - Massage the scalp, manually and mechanically.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

01

Objective - Identify a variety of scalp treatments and state when to use.

Criterion - As stated, 75% proficiency

Evaluation Method - Written/Oral Test

Comments -

4. Objective - Perform a variety of scalp treatments.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

5. Objective - Identify a variety of shampoos and state their uses.

Criterion - As stated, 75% proficiency

Evaluation Method - Written/Oral Test

Comments -

6. Objective - Perform a safe and sanitary shampoo.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Cosmetology
AREA: Scalp
GOAL: To safely perform those services related to scalp treatment.

Date
Intro. Date Achieved

7. Objective - Identify a variety of rinses and state their uses.

Criterion - As stated, 75% proficiency

Evaluation Method - Written/Oral Test

Comments -

8. Objective - Apply a rinse safely.

Criterion - As stated

Evaluation Method - Teacher Observation

OBJECT: Cosmetology
AREA: Hair
GOAL: To safely, properly and efficiently perform basic hairstyling techniques.

Date _____
Intro. _____
Achieved _____

1. Objective - Identify properties of hair and its structure.
Criterion - 80% proficiency Evaluation Method - Written/Oral Test
Comments - _____
2. Objective - Identify methods of hair curling and describe when to employ.
Criterion - 80% proficiency Evaluation Method - Written/Oral Test
Comments - _____
3. Objective - Demonstrate various methods of hair curling.
Criterion - As stated Evaluation Method - Teacher Observation
Comments - _____
4. Objective - Identify hair styling trends.
Criterion - 80% proficiency Evaluation Method - Written/Oral Test
Comments - _____
5. Objective - List problems encountered in hair styling.
Criterion - 80% proficiency Evaluation Method - Written/Oral Test
Comments - _____
6. Objective - Describe factors in selecting hair styles.
Criterion - 80% proficiency Evaluation Method - Written/Oral Test
Comments - _____

SUBJECT: Cosmetology
AREA: Hair
GOAL: To safely, properly and efficiently perform basic hairstyling techniques,

Date
Intro. Achieved

7. Objective - List various types of curls.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

8. Objective - Identify parts and mobility of a curl.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

9. Objective - Describe the types of pincurl and roller foundation.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

10. Objective - Explain pincurl and stem direction.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

11. Objective - Identify wave formation patterns.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

12. Objective - Describe hair end finish and types of hair parting..

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

SUBJECT: Cosmetology
AREA: Hair
GOAL: To safely, properly and efficiently perform basic hairstyling techniques.

DATE: _____
ACHIEVED: _____

_____ 13. Objective - Demonstrate types of curls.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

_____ 14. Objective - Demonstrate types of wave foundation patterns.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

_____ 15. Objective - Demonstrate hair parting techniques.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

_____ 16. Objective - Properly set a head.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

_____ 17. Objective - Properly comb out a set to the desired style.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Cosmetology
AREA: Hair Cutting
GOAL: To safely, properly and efficiently perform basic hair cutting techniques.

Date _____
Intro. _____
Date Achieved _____

1. Objective - Identify types of cutting techniques and explain when to employ each.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Test

Comments -

2. Objective - Safely perform a hair cut.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

3. Objective - Safely shape hair using a razor and scissors.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

4. Objective - Safely thin or taper hair using a razor and scissors.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

5. Objective - Safely demonstrate shingling.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Cosmetology
AREA: Permanents and Straightening
GOAL: To safely, properly and efficiently administer a permanent and straighten hair.

Date
Intro. Date
 Achieved

- | | | | |
|-------|-------|---|--|
| _____ | _____ | 1. <u>Objective</u> - Identify types of permanent waving techniques. | |
| | | <u>Criterion</u> - 80% proficiency | <u>Evaluation Method</u> - Written/Oral Test |
| | | <u>Comments</u> - | |
| _____ | _____ | 2. <u>Objective</u> - Properly prepare the patron and equipment for a permanent. | |
| | | <u>Criterion</u> - As stated. | <u>Evaluation Method</u> - Teacher Observation |
| | | <u>Comments</u> - | |
| _____ | _____ | 3. <u>Objective</u> - Demonstrate cold permanent waving. | |
| | | <u>Criterion</u> - As stated. | <u>Evaluation Method</u> - Teacher Observation |
| | | <u>Comments</u> - | |
| _____ | _____ | 4. <u>Objective</u> - Demonstrate permanent waving employing heat. | |
| | | <u>Criterion</u> - As stated. | <u>Evaluation Method</u> - Teacher Observation |
| | | <u>Comments</u> - | |
| _____ | _____ | 5. <u>Objective</u> - Discuss special problems of permanent waving tinted, bleached and gray or white hair. | |
| | | <u>Criterion</u> - 80% proficiency | <u>Evaluation Method</u> - Written/Oral Test |
| | | <u>Comments</u> - | |
| _____ | _____ | 6. <u>Objective</u> - Explain chemical hair relaxing techniques. | |
| | | <u>Criterion</u> - 80% proficiency | <u>Evaluation Method</u> - Written/Oral Test |
| | | <u>Comments</u> - | |

SUBJECT: Cosmetology
AREA: Permanents and Straightening
GOAL: To safely, properly and efficiently administer a permanent and straighten hair.

Date Date
Intro. Achieved

7. Objective - Demonstrate chemical hair relaxing.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

8. Objective - Demonstrate physical hair relaxing.

Criterion - As stated.

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Cosmetology
AREA: Hair Coloring
GOAL: To safely, properly and efficiently color hair.

Date
Intro. Date
 Achieved

1. Objective - Describe the difference(s) between temporary, semi-permanent and permanent dyes and tints.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Tests

Comments -

2. Objective - Identify five (5) types of temporary colorings.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Tests

Comments -

3. Objective - Identify various types of tints.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Tests

Comments -

4. Objective - Describe commercial and non-commercial types of bleaches.

Criterion - 80% proficiency

Evaluation Method - Written/Oral Tests

Comments -

5. Objective - Give a patch test.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

6. Objective - Test for metallic salts.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

SUBJECT: Cosmetology
AREA: Hair Coloring
GOAL: To safely, properly and efficiently color hair.

Date
Intro. Date
 Achieved

7. Objective - Apply basic bleach.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

8. Objective - Apply rstouch.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

9. Objective - Apply high bleaching.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

10. Objective - Apply partial lightening, frosting, tipping & streaking.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

11. Objective - Discuss dimensional coloring.

Criterion - As stated

Evaluation Method - Written Tests

Comments -

SUBJECT: Cosmetology

Face

To safely, properly and efficiently give skin care applications.

Date
Achieved

1. Objective - Identify properties of skin and its structure.

Criterion - 80% proficiency

Evaluation Method - Oral/Written Tests

Comments -

2. Objective - Describe the purpose and benefits of a facial massage.

Criterion - 80% proficiency

Evaluation Method - Oral/Written Tests

Comments -

3. Objective - Give a facial massage.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

4. Objective - Explain the difference between a pack and a mask.

Criterion - 80% proficiency

Evaluation Method - Oral/Written Tests

Comments -

5. Objective - Give a pack and a mask.

Criterion - As stated

Evaluation Method - Teacher Observation

Comments -

6. Objective - Discuss safe ways to bleach or remove lip, arms, legs and/or face hair.

Criterion - As stated

Evaluation Method - Written Tests

Comments -

SUBJECT: Cosmetology

AREA: Face

GOAL: To safely, properly and efficiently give skin care applications.

Date
Intro. Achieved

7. Objective - Describe an electrical facial massage,

Criterion - 80% proficiency

Evaluation Method - Oral/Written Tests

Comments -

8. Objective - Explain the difference(s) between daytime, evening, corrective and theatrical make-up.

Criterion - 80% proficiency

Evaluation Method - Oral/Written Tests

Comments -

9. Objective - Arch an eyebrow.

Criterion - As stated

Evaluation Method - Teacher Observation

SUBJECT: Cosmetology
AREA: Record Keeping
GOAL: To maintain up to date records on customer treatments.

Date Date
Intro. Achieved

1. Objective - Explain the need for maintaining accurate records on customer treatments.
Criterion - 80% proficiency Evaluation Method - Oral/Written Tests
Comments -
2. Objective - Maintain accurate records of permanents, chemical treatments, dye colors, etc.
Criterion - As stated Evaluation Method - Teacher Observation
Comments -
3. Objective - Maintain appointment books accurately.
Criterion - As stated Evaluation Method - Teacher Observation
Comments -
4. Objective - Follow appropriate procedures for storing supplies and ordering stock.
Criterion - As stated Evaluation Method - Teacher Observation
Comments -
5. Objective - Discuss salon ownership/types of leases/insurances and necessary consideration.
Criterion - As stated, 75% proficiency. Evaluation Method - Oral/Written Tests
Comments -
6. Objective - Discuss salaries nad possible methods of payment.
Criterion - As stated, 75% proficiency. Evaluation Method - Oral/Written Tests
Comments -

SUBJECT: Cosmetology
AREA: Applied Chemistry
GOAL: To demonstrate an understanding of the relationship of chemistry to cosmetic supplies and services rendered to the public.

Date
Intro. Achieved

1. Objective - Describe the chemical and physical properties of cosmetic supplies.

Criterion - 80% proficiency

Evaluation Methods - Oral/Written Tests

Comments -

2. Objective - Describe the chemical and physical changes that may occur in cosmetic supplies.

Criterion - 80% proficiency

Evaluation Methods - Oral/Written Tests

Comments -

3. Objective - Explain the need to maintain chemicals safely.

Criterion - 80% proficiency

Evaluation Methods - Oral/Written Tests

Comments -

SUBJECT: Cosmetology

ADJ: Anatomy & Physiology

GOAL: To demonstrate a knowledge of physical and mental health in relationship to the cosmetology trade.

DATE: Date

REMARKS: Achieved

1. Objective - Identify the parts of the upper extremities of the human anatomy.

Criterion - 75% proficiency

Evaluation Method - Oral/Written Test

Comments -

2. Objective - Identify the composition of skin appendages.

Criterion - 75% proficiency

Evaluation Method - Oral/Written Test

Comments -

3. Objective - Describe the microscopic structure of bacteria, hair cells and tissues.

Criterion - 75% proficiency

Evaluation Method - Oral/Written Test

Comments -

4. Objective - Identify, locate and describe the functions of the major body systems.

Criterion - 75% proficiency

Evaluation Method - Oral/Written Test

Comments -

5. Objective - Explain the interrelationship between health and appearance.

Criterion - 75% proficiency

Evaluation Method - Oral/Written Test

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Introduction to Data Processing
 GOAL: To understand the role of data processing in today's technology.

Date
Intro. Date
Achieved

1. Objective - Define words in the basic data processing vocabulary.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Briefly outline the chain of events leading to present-day data processing.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify equipment found in DP/CP program (classroom hardware)

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain what is meant by "data format."

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Plan a format for data.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
AREA: Data Recording Devices
GOAL: To identify, program and operate data recording devices.

Date
Intro. Date
 Achieved

1. Objective - Identify all recording devices (in the program) by model number.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the controls by function.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Program data recorders for automatic function.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Key data under program control #5496/9610.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Data Recording Devices
 GOAL: To identify, program and operate data recording devices.

Date Intro.	Date Achieved			
_____	_____	5. <u>Objective</u> - Verify data under program control #5496/9610.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	6. <u>Objective</u> - Key data on IBM129 data recorder.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Verify data on IBM129 data recorder.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Key and operate in IBM3741 key to disk.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Key information (200 words) with 95% accuracy.		
		<u>Criterion</u> - As stated.	<u>Evaluation Method</u> - Teacher Observation	
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
AREA: Automatic Data Processing Equipment
GOAL: To correctly operate IBM5486 card sorter.

Date
Intro. Date
 Achieved

1. Objective - Set functional switches for card sequence.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Perform sort operation.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Label, distribute, log and file completed jobs.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Sort numerically.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Sort alphabetically (without special feature)

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
AREA: Introduction to Computer Programming.
GOAL: To understand the functions of the IBM System/3.

Date Date
Intro. Achieved

1. Objective - List the elements of a data processing system.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify the basic devices of the IBM System/3.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - List the procedures utilized by the system to translate a programming language into a machine usable language.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Explain the basic principles of RPGII.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING.

Page 6

AREA: Coding for Detail Listing in RPG II.

GOAL: To understand and use the specialized forms and necessary coding for a computer program.

Date
Intro. Date
 Achieved

1. Objective - List and describe the four (4) basic types of specification sheets.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Describe the function of a printer spacing chart.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Key source program from specification sheets.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Compile source program.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Debug source program.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

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SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING.

AREA: Coding for Detail Listing in RPG II.

GOAL: To understand and use the specialized forms and necessary coding for a computer program.

Page 7

Date
Intro. Date
 Achieved

6. Objective - Execute object program with test data.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

7. Objective - Use edit codes when writing program.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

8. Objective - Code and use fixed dollar signs.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

9. Objective - Code and use of floating dollar signs.

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

10. Objective - Define "asterisk protection"

Criterion - As stated, 75% proficiency.

Comments -

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING.

AREA: Coding for Detail Listing in RPG II.

GOAL: To understand and use the specialized forms and necessary coding for a computer program.

Date Intro.	Date Achieved
----------------	------------------

_____	_____	11. <u>Objective</u> - Code and use asterisk protection.
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Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Control Levels

GOAL: To write calculation specifications which will accumulate totals for groups of records and supply the necessary entries
(the output-format specifications to print these totals)

Page 9

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Define control level.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Define control group.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Define control field.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Define control break.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Program using control level.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Control Levels

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GOAL: To write calculation speculations which will accumulate totals for groups of records and supply the necessary entries
(the output-format specifications to print these totals)

Date
Intro.

Date
Achieved

6. Objective - Program using control group.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Program using control field.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

8. Objective - Program using control break.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

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SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Programmer controlled overflow overriding Automatic Overflow.

GOAL: To write specifications for programs which require over flow pages and which will instruct and override the automatic overflow instructions provided by RPGII

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Analyze a program for computer application (RPGII)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Develop flowchart of steps involved.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Analyze data and develop files.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - code the calculation specifications.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Programmer controlled overflow overriding Automatic Overflow.

GOAL: To write specifications for programs which require over flow pages and which will instruct and override the automatic overflow instructions provided by RPGII

Date Intro.	Date Achieved		
_____	_____	5. <u>Objective</u> - Code for control overflow. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	6. <u>Objective</u> - Code for control breaks. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	7. <u>Objective</u> - Code for multiple control breaks. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	8. <u>Objective</u> - Code for summary punching. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Programmer controlled overflow overriding Automatic Overflow.

GOAL: To write specifications for programs which require over flow pages and which will instruct and override the automatic overflow instructions provided by RPGII

Date Intro.	Date Achieved	
_____	_____	9. <u>Objective</u> - Code for sequence checking of different record types. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation. Teacher-made Oral/Written Tests
_____	_____	10. <u>Objective</u> - Code and use input field indicator. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	11. <u>Objective</u> - Code and use stacker selection. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	12. <u>Objective</u> - Code and use SETON and SETOFF. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

579

578

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Matching Records

GOAL: To understand and write programs to process multiple input files sequentially, using the matching record technique.

Date
Intro. Date
 Achieved

1. Objective - Define file description entries, input entries, calculation entries and output entries.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Code for matching records in RPGII.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
AREA: Branching and Looping in RPG II
GOAL: To understand and write programs in RPG II utilizing branching and looping processes.

Date
Intro. Date
 Achieved

- _____ _____ 1. Objective - Define branching, looping, subroutines and exception output.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

- _____ _____ 2. Objective - Code for branching.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

- _____ _____ 3. Objective - Code for looping.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Table and Array
 GOAL: To understand and write programs dealing with tables and arrays.

Date
Intro.

Date
Achieved

1. Objective - Define "table" and "array".

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Write a program which searches a table for a specific item.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Write a program which searches a table to retrieve a corresponding entry in another table.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Determine the use of arrays as opposed to the use of tables.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Define an array on the extension sheet.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
AREA: Table and Array
GOAL: To understand and write programs dealing with tables and arrays.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - Code problems that reference all elements of an array. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	7. <u>Objective</u> - Code problems that reference individual elements of an array. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	8. <u>Objective</u> - Define the code LOKUP operation code with arrays. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	9. <u>Objective</u> - Store data in arrays. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Miscellaneous Operations
 GOAL: To understand the meaning of and write programs dealing with operations codes.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Define an operation code.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Identify MVR, MOVEA, MOVE, MOVE, MLH20, MHH20, MLL20 and TEST2.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Write a program using MVR.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Write a program using MOVEA.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Write a program using MOVE.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Miscellaneous Operations
 GOAL: To understand the meaning of and write programs dealing with operations codes.

Date Intro.	Date Achieved		
_____	_____	6. <u>Objective</u> - Write a program using MOVE1. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	7. <u>Objective</u> - Write a program using MLH20. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	8. <u>Objective</u> - Write a program using MHH20. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	9. <u>Objective</u> - Write a program using MLL20. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	10. <u>Objective</u> - Write a program using TEST2. <u>Criterion</u> - As stated, 75% proficiency. <u>Comments</u> -	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: DATE PROCESSING/COMPUTER PROGRAMMING
 AREA: Disk File and Packed Fields
 GOAL: To create disk files and process them sequentially.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Define disk files.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	2. <u>Objective</u> - File description entries.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	3. <u>Objective</u> - Program for input specifications.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	4. <u>Objective</u> - Program for calculation specifications.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	5. <u>Objective</u> - Program for output specifications.	
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	

SUBJECT: DATE PROCESSING/COMPUTER PROGRAMMING
 AREA: Disk File and Packed Fields
 GOAL: To create disk files and process them sequentially.

Date Intro.	Date Achieved			
_____	_____	6. <u>Objective</u> - Process files sequentially using program developed.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Add records to sequential disk file.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Tag records for deletion in a sequential disk file.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Reorganize a sequential disk file.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	10. <u>Objective</u> - Create an index file (order and unordered)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATE PROCESSING/COMPUTER PROGRAMMING
AREA: Disk File and Packed Fields
GOAL: To create disk files and process them sequentially.

Date
Intro. Date
 Achieved

11. Objective - Tag records for deletion in an indexed file.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

12. Objective - Update records in an indexed file.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

13. Objective - Update records in a sequential disk file.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

14. Objective - Reorganize an indexed file.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Operation Control Language (OCL)
 GOAL: To understand and write OCL statements for job stream and system utility programs.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Define "statement identifiers" and "parameters."		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List and define the General Coding Rules.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Correctly use the Control Programming Reference Manual.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests.
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Write OCL statements according to written specifications.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Note and correct error notations.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Utility Programs

GOAL: To understand and write utility control statements to supply information to the system so that the desired utility program may be utilized.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List seven (7) utility control statements.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Write a program using #INT (Disk initiation program).		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Write a program using \$ALT (Alternate track assignment).		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Write a program using \$BUILD (Alternate track rebuild program)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Write a program using \$LABEL (File and volume label display program.)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: Utility Programs

GOAL: To understand and write utility control statements to supply information to the system so that the desired utility program may be utilized.

Date Intro.	Date Achieved			
_____	_____	6. <u>Objective</u> - Write a program using \$DELETE (file delete program.)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Write a program using \$COPY (Disk copy/dump program.)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Write a program using \$KCOPY (Copy/dump program.)		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Write a program using \$MAINT (Library maintenance program).		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	10. <u>Objective</u> - Correct for error notations.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Introduction to System/3 COBOL
 GOAL: To understand the computer language COBOL and its application to the IBM System/3.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Define the principles of COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the components of the System/3 system control program.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the System/c COBOL Processing Modules.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Create a flowchart for COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: COBOL Coding
 GOAL: To understand the types of coding used in COBOL and apply them effectively.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify the parts of the COBOL Coding Form.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Identify the meaning of the characters and words used in the COBOL language.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the divisions of the COBOL source program.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Write a program which codes for detail listing.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Code for ADD and SUBTRACT in COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING

AREA: COBOL Coding

GOAL: To understand the types of coding used in COBOL and apply them effectively.

Date Intro.	Date Achieved			
_____	_____	6. <u>Objective</u> - Code for MULTIPLY and DIVIDE in COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	7. <u>Objective</u> - Code utilizing the compute statement in COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	8. <u>Objective</u> - Code for comparison in COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	9. <u>Objective</u> - Code for condition names and GO/TO option.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	10. <u>Objective</u> - Code with PERFORM in COBOL.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
AREA: COBOL Coding
GOAL: To understand the types of coding used in COBOL and apply them effectively.

Date Date
Intro. Achieved

11. Objective - Code heading and print overflow in COBOL.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

12. Objective - code for minor, intermediate and major totals in COBOL.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

13. Objective - Code for table lookup in COBOL.

Criterion - As stated, 75% proficiency.

Evaluation Method - Teacher Observation
 Teacher-made Oral/Written Tests

Comments -

SUBJECT: DATA PROCESSING/COMPUTER PROGRAMMING
 AREA: Operation of Commodore SP9000
 GOAL: To understand and effectively program the Commodore SP9000.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the components of the Commodore SP9000.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Create a flow chart for the Commodore SP9000.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Write a program for the Commodore SP9000.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Run program and debug.		
		<u>Criterion</u> - As stated, 75% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

(1)

SUBJECT: Diesel/Truck Repair
AREA: Electrical Systems and Ignition Systems
GOAL: To understand the fundamentals of electricity.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Identify the basic electrical units of measurements. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - Explain Ohm's Law. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - List the types of electrical circuits. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Draw a series, parallel, and series/parallel circuit. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	5. <u>Objective</u> - Explain magnetism and electro-magnetism. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

(2)

SUBJECT: Diesel/Truck Repair
AREA: Electrical Systems and Ignition Systems
GOAL: To understand the fundamentals of electricity.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - Identify the types of magnetic controls. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	7. <u>Objective</u> - List the types of equipment used to service electrical systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	8. <u>Objective</u> - Demonstrate the use of a volt, ohm and amp meter. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	9. <u>Objective</u> - Demonstrate the correct procedure for troubleshooting electrical system failure. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Diesel/Truck Repair
 AREA: Electrical Systems and Ignition Systems
 GOAL: To understand the function and operation of a basic engine ignition system.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the engine ignition system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of ignition systems used in truck engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service ignition systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Demonstrate the repair and adjustment of a shop ignition system to specifications, using the correct tools. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Electrical Systems and Ignition Systems
 GOAL: To service the lighting and accessory circuits of vehicles.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the terms ground, short and open.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Draw a diagram of basic lighting and accessory circuits.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the types of manuals available to trace electrical circuits.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Using a wiring diagram, trace a complete lighting circuit on a shop unit.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Identify the tools and material used to service electrical circuits.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 AREA: Electrical Systems and Ignition Systems
 GOAL: To service the lighting and accessory circuits of vehicles.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - Demonstrate the repair of electrical circuits using the correct tool. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	7. <u>Objective</u> - Explain the importance of head light aiming. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	8. <u>Objective</u> - List the types of headlights used on trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	9. <u>Objective</u> - Identify the tools and equipment used to adjust headlight systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	10. <u>Objective</u> - Using the correct tools, adjust a headlight system to specifications. <u>Criterion</u> - As stated, minimum 95% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Servicing the Vehicle Chassis
 GOAL: To operate and maintain hydraulic lifts, jacks and jack stands.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Identify various types of hydraulic lifts.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Perform maintenance checks on a hydraulic lift.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Safely raise a vehicle on a hydraulic lift.		
		<u>Criterion</u> - As stated, minimum 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the different types of hydraulic jacks used in the truck industry.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Perform routine safety checks on a hydraulic jack.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

(8)

SUBJECT: Diesel/Truck Repair
AREA: Servicing the Vehicle Chassis
GOAL: To operate and maintain hydraulic lifts, jacks and jack stands.

Date Intro.	Date Achieved	
-----	-----	6. <u>Objective</u> - Demonstrate the safe use of a hydraulic jack. <u>Criterion</u> - As stated, minimum 100% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
-----	-----	7. <u>Objective</u> - Demonstrate the use of a lubrication guide to locate jack points on a vehicle. <u>Criterion</u> - As stated, minimum 95% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
-----	-----	8. <u>Objective</u> - Identify the correct jack points for a specific vehicle. <u>Criterion</u> - As stated, minimum 95% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
-----	-----	9. <u>Objective</u> - Safely Set a vehicle on jack stands. <u>Criterion</u> - As stated, minimum 100% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Diesel/Truck Repair
 AREA: Servicing the Vehicle Chassis
 GOAL: To perform periodic maintenance and service operations on a vehicle using the correct equipment.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the purpose of vehicle lubrication.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the types of lubricants used in servicing trucks.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to lubricate a vehicle.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Demonstrate the application of the different types of lubricants using the correct equipment.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Perform a vehicle safety check using a lubrication guide check off list.		
		<u>Criterion</u> - As stated, minimum 95% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 AREA: Welding
 GOAL: To understand the basic fundamentals of arc welding.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the principles of arc welding.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Define the terms arc, polarity and current setting.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the components of an arc welding machine and related safety gear.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - List the types of rods used in arc welding.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the safe use of an arc welder on different pieces of scrap steel using the proper equipment.		
		<u>Criterion</u> - As stated, minimum 95% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests

(11)

SUBJECT: Diesel/Truck Repair
AREA: Welding
GOAL: To understand the basic fundamentals of arc welding.

Date
Intro. Date
 Achieved

6. Objective - Demonstrate the safe use of a torch to cut pieces of scrap steel using the correct tip.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Shop and Industry Records
 GOAL: To develop and maintain shop records.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the reasons for keeping shop records. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of shop records that should be maintained. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Demonstrate the use of time sheets, equipment use forms, service records and work orders. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
AREA: Basic Tools
GOAL: To select, use and maintain hand and shop tools.

Date
Intro. Date
Achieved

1. Objective - List the types of hand and shop tools used by diesel mechanics.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Identify the correct tools required for specific jobs.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Demonstrate the safe use of hand tools on shop units.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Charging and Cranking Systems
 GOAL: To service vehicle batteries.

Date at ro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the function of the vehicle battery.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the materials used in battery construction.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the equipment used to test and recharge storage batteries.		
		<u>Criterion</u> - As stated, minimum 80% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Using the proper equipment, safely perform a test of a storage battery.		
		<u>Criterion</u> - As stated, minimum 95% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the procedure for recharging a battery safely.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 AREA: Charging and Cranking Systems
 GOAL: To service the charging system components.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the function of the charging system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Describe the types of charging systems used in trucks.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the components of the charging system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the equipment used to check and repair charging system components.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the disassembly, repair and reassembly of charging system components to specifications.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
AREA: Charging and Cranking Systems
COAL: To service the charging system components.

Date Date
Intro. Achieved

6. Objective - Using the correct equipment; perform a test of a truck charging system.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Charging and Cranking Systems
 GOAL: To service the truck electrical starting system components.

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DATE ENTERED	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the truck starting system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the components of the different starting systems used on trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service starting system components. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the proper equipment, disassemble, check and reassemble the components of the starting system. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Demonstrate the correct procedure for troubleshooting a starting system in a vehicle. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Charging and Cranking Systems
 GOAL: To service the truck electrical starting system components.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the truck starting system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the components of the different starting systems used on trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service starting system components. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the proper equipment, disassemble, check and reassemble the components of the starting system. <u>Criterion</u> - As stated, minimum ⁹⁰68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Demonstrate the correct procedure for troubleshooting a starting system in a vehicle. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Construction and Service
 GOAL: To understand the construction and design of gasoline and diesel engines.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the operation of combustion engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the differences between gasoline and diesel engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - List the different types of engines used in trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the components of gasoline and diesel engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Explain the function of each component of an engine (gasoline and diesel). <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Construction and Service
 GOAL: To understand the operating principle of engines.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Define the terms cycle, stroke, bore, combustion, volumetric efficiency and engine heat balance. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the purpose of component timing. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Describe the difference between two and four stroke cycle engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Explain the function of blowers and superchargers. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Identify the different types of blowers and superchargers used on diesel engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
AREA: Engine Construction and Service
GOAL: To understand the operating principle of engines.

Date Intro.	Date Achieved
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_____	_____	6. <u>Objective</u> - Demonstrate the service and repair of fasteners using the correct tools and equipment.
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Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
AREA: Engine Construction and Service
GOAL: To safely start and stop an engine.

Date
Intro.

Date
Achieved

1. Objective - Explain the procedure for safely starting and stopping an engine.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - Demonstrate the use of a safely check off list prior to starting an engine.

Criterion - As stated, minimum 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 APEA: Engine Construction and Service
 COAL: To understand the basic principles and services of anti pollution devices.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the purpose of pollution control devices. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of control devices used on diesel engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the causes and results of pollution control device failures. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using a flow chart, demonstrate the correct procedure for troubleshooting pollution control devices. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Diesel Fuel Systems
 GOAL: To understand the characteristics and safe handling and storage of fuel oils.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the classification of fuel oil.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Define the terms B.T.U., viscosity, flash point and pour point.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the types of fuel contamination.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Demonstrate the safe handling and storage of fuel oils.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 ARFA: Diesel Fuel Systems
 GOAL: To service fuel injection nozzles and holders.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function and operation of fuel injection nozzles and holders. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Describe the different types of nozzles and holders. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service nozzles and holders. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Demonstrate the correct service and repair procedures on shop nozzles and holders. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Troubleshoot and diagnose an injection nozzle assembly on a shop engine using the correct tools. <u>Criterion</u> - As stated, minimum 80% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Diesel Fuel Systems
 GOAL: To service various types of governors.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of a governor. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of governors used on diesel engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service governors. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct tools, trouble shoot and repair a governor on a shop engine. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Diesel Fuel Systems
 GOAL: To understand the operation and servicing of the different fuel injection and pump systems.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the function of fuel injection.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the types of fuel injection systems and their different requirements.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the components of the different fuel injection systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - List the tools and equipment used to service the different fuel injection systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Demonstrate the correct disassembly, assembly and adjustment procedures for the different types of injection systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests

SUBJECT: Diesel/Truck Repair
AREA: Diesel Fuel Systems
GOAL: To understand the operation and servicing of the different fuel injection and pump systems.

Date
Intro. Date
 Achieved

6. Objective - Using the correct tools, troubleshoot and repair a fuel injection system on a shop engine.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Diesel Fuel Systems
 GOAL: To troubleshoot and tune up diesel engines.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the purpose of diesel engine tune-up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the steps involved in diesel engine tune-up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Describe the system malfunctions related to engine tune-up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and equipment needed for engine tune-up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct tools, tune up a shop engine to specifications. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Gasoline Fuel Systems
 GOALS: To understand the operation of the gasoline engine fuel system.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the operation of the gasoline engine fuel system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the components of the gasoline fuel system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Describe the function of the carburetor.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Define the term air/fuel ratio.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 AREA: Gasoline Fuel Systems
 GOAL: To troubleshoot and tune up a gasoline engine.

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Date INITIALS	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the purpose of gasoline engine tune up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the steps involved in gasoline engine tune up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Describe the system malfunctions related to gasoline engine tune up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and equipment needed for gasoline engine tune up. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct tools, tune up a gasoline shop engine to specifications. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service a cylinder block.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the importance of cylinder block inspection.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Define the term pressure testing.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - List the components of the cylinder block.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service engine blocks.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Describe the measurements of component parts which must be taken before cylinder block repair is started.		
		<u>Criterion</u> - As stated, minimum 66% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests

SUBJECT: Diesel/Truck Repair
AREA: Engine Disassembly and Component Service
GOAL: To service a cylinder block.

Date
Intro.

Date
Achieved

6. Objective - List the causes and results of block component failures.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

7. Objective - Describe the types of repairs that are made to damaged cylinder blocks.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze crankshaft failures.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Explain the causes of crankshaft failure.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	2. <u>Objective</u> - List the methods of inspection for crankshaft failure.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	3. <u>Objective</u> - Explain the function of crankshaft bearings and seals.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service crankshafts.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	5. <u>Objective</u> - Using the correct tools, demonstrate the service operations performed on a shop crankshaft.	
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	

SUBJECT: Diesel/Truck Repair
AREA: Engine Disassembly and Component Service
GOAL: To service and analyze crankshaft failures.

Date
Intro. Date
 Achieved

6. Objective - Install a crankshaft, bearings and seals in a shop engine and adjust to specifications using the correct tools.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and component service
 GOAL: To service and analyze camshaft failures.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the causes of camshaft failure.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the methods of inspection for camshaft failure.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Explain the function of camshaft bearings and seal.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service camshafts.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Using the correct tools remove, inspect and reinstall a camshaft, bearings and seals.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests	
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
AREA: Engine Disassembly and component service
GOAL: To service and analyze camshaft failures.

Date
Achieved

_____ 6. Objective - Explain the importance of camshaft/crankshaft timing.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

_____ 7. Objective - List the components of the camshaft/crankshaft timing system.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

_____ 8. Objective - Using the correct tools, adjust the timing gears to specifications.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

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SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze cylinder liner failure.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Identify the types of liners used in diesel engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the methods of inspection for liner failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service liners. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct tools, remove , measure, service and replace a cylinder liner in a shop engine. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze connecting rod failures.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the causes of connecting rod failure.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the methods of inspection for connecting rod failure.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Explain the function of rod bearings.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service connecting rods.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Using the correct tools, remove, inspect and reinstall a connecting rod and bearings in a shop engine.		
		<u>Criterion</u> - As stated, minimum 90% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze piston/ring failure.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the causes of piston and ring failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - List the methods of inspection for piston and ring failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service pistons and rings. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Using the correct tools, remove, inspect, measure and reinstall a piston and ring assembly in a ship engine. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze oil pump failures.

Date
Intro.

Date
Achieved

1. Objective - Explain the causes of oil pump failure.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the methods of inspection for oil pump failures.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service oil pumps.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Using the correct tools, disassemble, clean, inspect and reassemble an oil pump on a shop engine.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze cylinder head failures.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the causes of cylinder head failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the methods of inspection for cylinder head failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service cylinder heads. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct tools, perform service operations on a shop cylinder head. <u>Criterion</u> - As stated, minimum ⁷⁵~~68~~% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Engine disassembly and component service.
 GOAL: To service and analyze valve train mechanism failures.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - List the components of the valve train assembly. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - Explain the causes of valve train failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - List the methods of inspection for valve train failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service valve train components. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct tools, perform services operations to the valve train assembly of a shop engine. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To service and analyze turbocharger and blower failures.

DATE RECEIVED	Date Achieved	
_____	_____	1. <u>Objective</u> - List the causes of turbocharger and blower failures. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the methods of inspection for turbocharger and blower failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service turbochargers and blowers. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct tools, perform service operations to shop turbocharger and blower unit. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Engine Disassembly and Component Service
 GOAL: To check, adjust and break in an engine using a dynamometer.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the reasons for breaking in an engine.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the steps for preparing an engine for break in.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Explain the function of a dynamometer.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Describe the break in procedures for a rebuilt engine.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - List the tool used to break in an engine.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
AREA: Engine Disassembly and Component Service
GOAL: To check, adjust and break in an engine using a dynamometer.

Date
Intro.

Date
Achieved

5. Objective - List the tool used to break in an engine.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

6. Objective - Observing all safely precautions while using the dynamometer, operate an engine through all steps of the break in process.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Vehicle Braking Systems
 GOAL: To perform service operations on hydraulic brake systems.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the principles of hydraulic brake systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the components of the hydraulic brake system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service hydraulic brakes. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Explain the causes of hydraulic brake failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Using the correct tools, remove, service and install the components of a hydraulic brake system on a shop vehicle. <u>Criterion</u> - As stated, 100% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Vehicle Braking Systems
 GOAL: To perform service operations on air brake systems.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - Explain the principles of air brake systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - List the components of the air brake system.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service air brake systems.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Explain the causes of air brake system failures.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - Using the correct tools, remove, service and install the components of an air brake system on a shop vehicle.		
		<u>Criterion</u> - As stated, 100% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
 AREA: Vehicle Braking Systems
 GOAL: To perform service operations on a brake drum using a lathe and micrometer.

Date Intro.	Date Achieved			
_____	_____	1. <u>Objective</u> - List the types of brake drums used on trucks.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	2. <u>Objective</u> - Explain the term wear limit.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	3. <u>Objective</u> - Demonstrate the use of a micrometer to determine the extent of drum wear.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	4. <u>Objective</u> - Explain the function of a brake drum lathe.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		
_____	_____	5. <u>Objective</u> - List the types of brake drum lathes.		
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation	Teacher-made Oral/Written Tests
		<u>Comments</u> -		

SUBJECT: Diesel/Truck Repair
AREA: Vehicle Braking Systems
GOAL: To perform service operations on a brake drum using a lathe and micrometer.

DATE: _____
ACHIEVED: _____

6. Objective - Demonstrate the machining of a brake drum within specifications.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Hydraulics
 GOAL: To understand the basic principles of hydraulics.

Date Intro.	Date Achieved		
_____	_____	1. <u>Objective</u> - Define Pascal's Law.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	2. <u>Objective</u> - Explain the operation of hydraulic systems.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	3. <u>Objective</u> - List the components and fittings of a hydraulic system.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	
_____	_____	4. <u>Objective</u> - List the types of hydraulic systems and controls used on trucks.	
		<u>Criterion</u> - As stated, minimum 68% proficiency.	<u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
		<u>Comments</u> -	

SUBJECT: Diesel/Truck Repair
AREA: Hydraulics
GOAL: To understand the basic principles of hydraulics.

Date
Intro. Date
 Achieved

_____ _____ 5. Objective - Identify the tools and equipment used to service hydraulic systems.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

_____ _____ 6. Objective - Using the correct tools, demonstrate the disassembly, cleaning and reassembly of a shop hydraulic system.

Criterion - As stated, 100% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Suspension and Steering
 GOAL: To perform service operations on the suspension and steering system of a truck.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the steering and suspension system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of steering and suspension systems used on trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the components of the steering and suspension system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - List the causes and results of steering and suspension failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Explain the methods of inspection for checking steering and suspension failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Suspension and Steering
 GOAL: To perform service operations on the suspension and steering system of a truck.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - Identify the tools and equipment used to service steering and suspension systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	7. <u>Objective</u> - Using the correct tools, demonstrate the removal, inspection, assembly and adjustments to a shop unit steering and suspension system. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	8. <u>Objective</u> - List the types of tire and wheel assemblies used on trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	9. <u>Objective</u> - Identify the tools and equipment used to service truck tires. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	10. <u>Objective</u> - Safely demonstrate the service operations performed on truck tire and wheel assemblies using the correct equipment. <u>Criterion</u> - As stated, 100% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Universal Joints and Drive Shafts
 GOAL: To service truck universal joints and drive shafts.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the driveshaft and universal joints. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of drive shafts and joints used on trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service drive shafts and universal joints. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Using the correct equipment, demonstrate the removal, inspection, repair and assembly of shop drive shaft and universal joints. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Clutch and Flywheel
 GOAL: To service truck clutch and flywheel assemblies.

Date
Intro. Date
Achieved

1. Objective - Explain the function of the flywheel.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

2. Objective - List the types of flywheels used on truck engines.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

3. Objective - Identify the tools and equipment used to service flywheel assemblies.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

4. Objective - Demonstrate the removal, inspection and installation of a flywheel on a shop engine using the correct tools.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

5. Objective - Explain the function of the clutch assembly.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Clutch and Flywheel
 GOAL: To service truck clutch and flywheel assemblies.

Date Intro.	Date Achieved	
_____	_____	6. <u>Objective</u> - List the types of clutches used in truck engines. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	7. <u>Objective</u> - List the components of the different types of clutch assemblies. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	8. <u>Objective</u> - Identify the tools and equipment used to service clutch assemblies. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	9. <u>Objective</u> - Using the correct tools, remove, inspect, install and adjust a clutch assembly to specifications on a shop engine. <u>Criterion</u> - As stated, 100% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	10. <u>Objective</u> - List the causes and results of clutch/flywheel failure. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
AREA: Clutch and Flywheel
GOAL: To service truck clutch and flywheel assemblies.

Date
Intro. Date
 Achieved

11. Objective - Demonstrate the correct troubleshooting procedure for diagnosing clutch/flywheel failure.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Standard Transmission
 GOAL: To service a truck standard transmission.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the standard transmission. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of standard transmissions used in trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the components of the different types of standard transmissions. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - List the tools and equipment used to service standard transmissions. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
AREA: Standard Transmission
GOAL: To service a truck standard transmission.

Date
Intro. Date
 Achieved

5. Objective - Using the correct tools, safely remove, inspect, install and adjust a shop standard transmission.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

6. Objective - List the causes and results of standard transmission component failure.

Criterion - As stated, minimum 68% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -

SUBJECT: Diesel/Truck Repair
 AREA: Rear Axle Assembly
 GOAL: To service truck rear axle assemblies.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the function of the rear axle/differential assembly. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	2. <u>Objective</u> - List the types of differentials and their component parts used in trucks. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	3. <u>Objective</u> - Identify the tools and equipment used to service rear axle assemblies. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	4. <u>Objective</u> - Safely demonstrate the removal, inspection, adjustment and assembly of a shop rear axle assembly. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	5. <u>Objective</u> - Explain the causes and results of rear axle assembly failures. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

SUBJECT: Diesel/Truck Repair
 AREA: Heating and Air Conditioning
 GOAL: To service the heating and air conditioning system of a truck.

Date Intro.	Date Achieved	
_____	_____	1. <u>Objective</u> - Explain the operation of a truck heating system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	2. <u>Objective</u> - List the components of a truck heating system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	3. <u>Objective</u> - List the causes and results of heating system failures. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	4. <u>Objective</u> - Identify the tools and equipment used to service heating systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests
_____	_____	5. <u>Objective</u> - Using the correct tools, demonstrate the service and repair operations to a shop truck heating system. <u>Criterion</u> - As stated, minimum 90% proficiency. <u>Comments</u> - <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests

SUBJECT: Diesel/Truck Repair
 AREA: Heating and Air Conditioning
 GOAL: To service the heating and air conditioning system of a truck.

Date Init no.	Date Achieved	
_____	_____	6. <u>Objective</u> - Explain the operation of the truck air conditioning system. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	7. <u>Objective</u> - List the components of the air conditioning systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	8. <u>Objective</u> - List the causes and results of air conditioning system failures. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -
_____	_____	9. <u>Objective</u> - Identify the tools and equipment used to service air conditioning systems. <u>Criterion</u> - As stated, minimum 68% proficiency. <u>Evaluation Method</u> - Teacher Observation Teacher-made Oral/Written Tests <u>Comments</u> -

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SUBJECT: Diesel/Truck Repair
AREA: Heating and Air Conditioning
GOAL: To service the heating and air conditioning system of a truck.

Date
Intro. Date
 Achieved

10. Objective - Using the correct tools safely, demonstrate the troubleshooting procedure used to diagnose air conditioning system failure on a shop unit.

Criterion - As stated, minimum 90% proficiency.

Evaluation Method - Teacher Observation
Teacher-made Oral/Written Tests

Comments -